



Installation Manual

4428000A

Model PC237-441, PC257-441, PC457-441 Sump Pump Combo Series with 12V DC battery backup pump

PC237-441	1/3HP 115V 60Hz
PC257-441	1/2HP 115V 60Hz
PC457-441	1/2HP 115V 60HZ

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1. General Information and Safety Guidelines

Before installation, read the following instructions carefully. Each Liberty pump is individually factory tested to insure proper performance. Closely following these instructions will eliminate potential operating problems, assuring years of trouble-free service.

WARNING

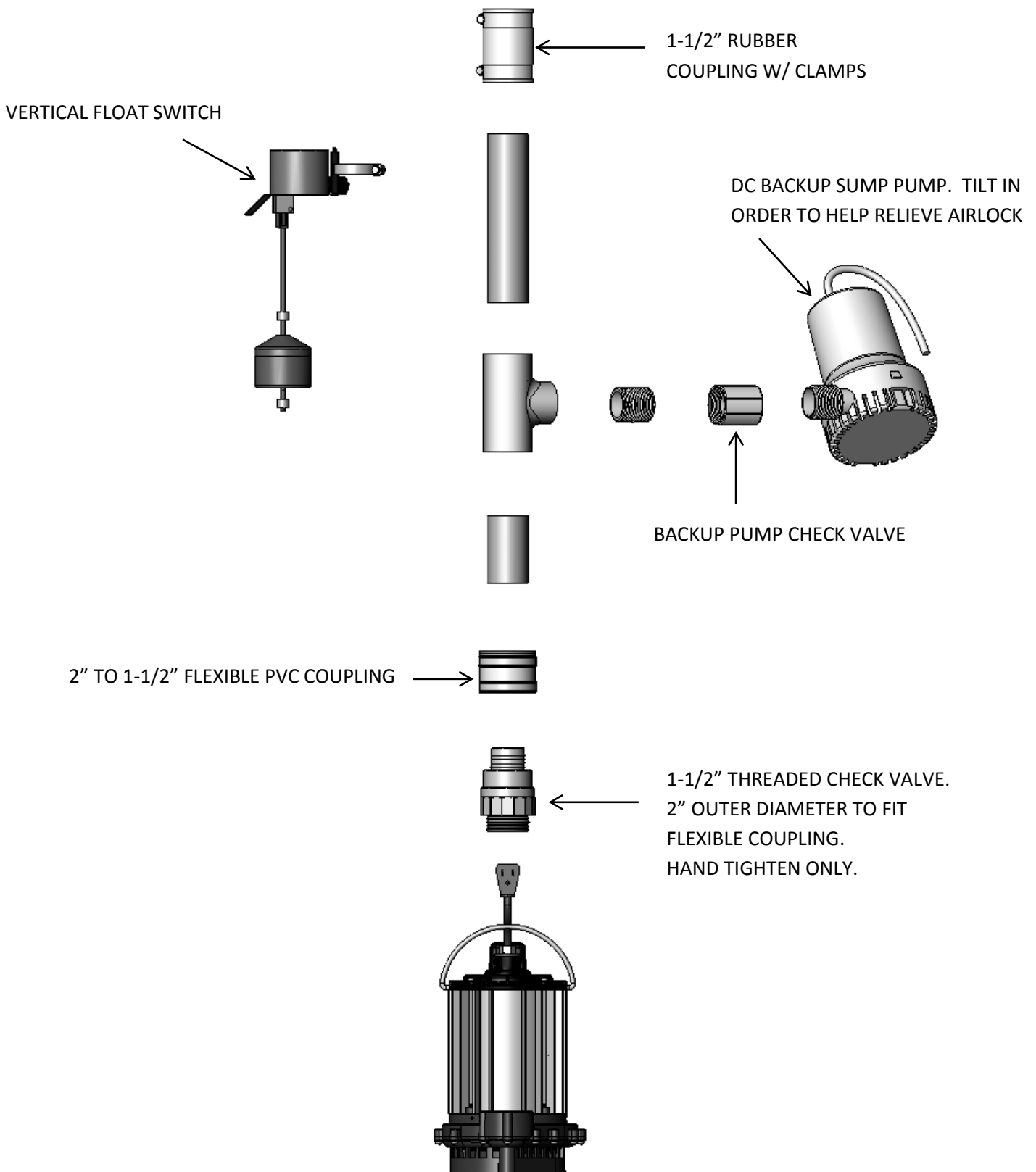
- **Risk of electric shock.** Always disconnect the pump from the power source before handling or making adjustments.
- The electrical connections and wiring for a pump installation should only be made by qualified personnel.
- This pump is supplied with a grounding conductor and grounding-type attachment plug. To reduce the risk of electric shock, be certain that it is connected only to a properly grounded, grounding-type receptacle.
- Do not bypass grounding wires or remove ground prong from attachment plugs.
- Do not use an extension cord.
- This pump requires a separate, properly fused and grounded branch circuit. Make sure the power source is properly sized for the voltage and amperage requirements of the pump, as noted on the nameplate.
- The electrical outlet shall be within the length limitations of the pump power cord, and at least 4 feet above floor level to minimize possible hazards from flood conditions.
- The installation must be in accordance with the National Electric Code and Plumbing Codes as well as all applicable local codes and ordinances.

2. Installation

The PC Series includes a primary sump pump preassembled with a DC powered battery backup pump. An exploded view of the system can be seen on page 3 (figure 1). The DC pump is packaged tilted at 30° angle to help prevent airlock.

1. This system should not be installed in a sump pit less than 15" in diameter. A larger diameter pit is preferred as it allows for longer pump cycling and reduced switch cycling. The depth of the pit should be at least 18" above the surface that the pump is resting on. If the pit is not already enclosed on the bottom, provide a hard level bottom of bricks or concrete. **DO NOT** place the pump directly on earth, gravel or debris since this can cause excessive wear of the impeller and possible jamming. "**The Brick**" (sold by Liberty Pumps as part # 4445000) is a pre-molded stable platform designed to fit your submersible pump. It raises the pump 2.5" off the bottom of the pit, reducing the potential for jamming from rocks and debris. Contact your local distributor to order. Remove all debris from the bottom of the sump pit before installation of the pump. A sump pit cover is suggested for safety and to prevent foreign objects from entering the pit.
2. Set the complete system in place by lowering the pump by the handle on the primary pump. Confirm that both the primary float switch and the backup float switch have adequate clearance and will not hang-up on the pit wall. The float must be **free to move throughout its travel** and not contacting the pump body, piping, or other objects.
3. The uppermost rubber coupling will connect to 1-1/2" PVC pipe. Tighten clamps to prevent leaking. This can also be used for removal of the pump, should the need arise. Do not reduce the discharge size to less than 1-1/4", as this will affect pump flow and performance.
4. A check valve is already installed on the primary pump as well as the backup pump. Please refer to the 441 installation manual for instruction on the battery backup system.

3. Exploded View



4. Warranty

2 Year Limited Warranty Liberty Pumps, Inc. warrants that pumps of its manufacture are free from all factory defects in material and workmanship for a period of 2 years from the date of purchase. The date of purchase shall be determined by a dated sales receipt noting the model and serial number of the pump. The dated sales receipt must accompany the returned pump if the date of return is more than 2 years from the "CODE" (date of manufacture) number noted on the pump nameplate. The manufacturer's obligation under this Warranty shall be limited to the repair or replacement of any parts found by the manufacturer to be defective, provided the part or assembly is returned freight prepaid to the manufacturer or its authorized service center, and provided that none of the following warranty-voiding characteristics are evident: The manufacturer shall not be liable under this Warranty if the product has not been properly installed; if it has been disassembled, modified, abused or tampered with; if the electrical cord has been damaged or improperly spliced; if the pump discharge has been reduced in size; if the pump has been used in hot water above the ratings listed above; if the pump has been used in water containing sand, lime, cement, gravel or other abrasives; if the product has been used to pump chemicals or hydrocarbons; if a non-submersible motor has been subjected to excessive moisture; or if the label bearing the serial and code number has been removed. Liberty Pumps, Inc. shall not be liable for any loss, damage or expenses resulting from installation or use of its products, or for consequential damages, including costs of removal, reinstallation or transportation. **There is no other express warranty. All implied warranties, including those of merchantability and fitness for a particular purpose, are limited to two years from the date of purchase.** This Warranty contains the exclusive remedy of the purchaser, and, where permitted, liability for consequential or incidental damages under any and all warranties are excluded.