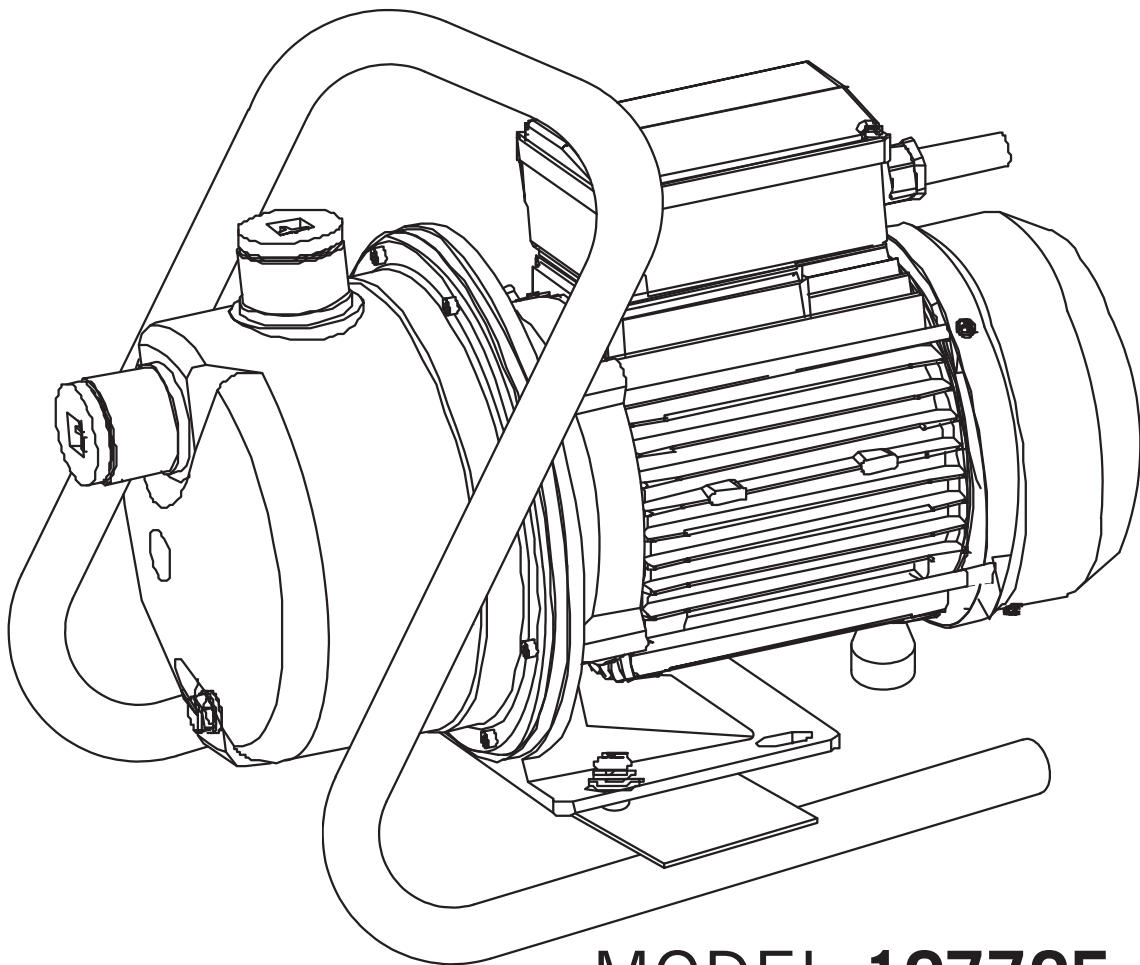

OWNER'S MANUAL

INSTALLATION AND OPERATION INSTRUCTIONS

1HP SPRINKLER BOOSTER PUMP



MODEL 107795



WARRANTY: PRODUCT DEFECTS COVERED 12 MONTHS FROM DATE OF PURCHASE. RECEIPT AND PRODUCT DATE CODE REQUIRED FOR WARRANTY CLAIM

THANK YOU FOR PURCHASING

Please read and save these instructions. Read carefully before attempting to assemble, install, operate or maintain the product described. Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and/or property damage! Retain instructions for future reference.

DESCRIPTION:

The 107795 series of pumps are suitable to pump clean, fresh water, with suspended soft particles no larger than 2.5mm in diameter. Suitable for pumping water from + 5°C to 40°C, max, with max suction lift of 8 meters; The pump cannot be used for salt water and inflammable, corrosive, explosive or dangerous liquids. Ensure that the pump never runs without water.

	DANGER	Keep the pump equipment protected from interference by children!
	WARNING	This pump is designed for clean fresh water only. It must NOT be used as a continuous duty fountain pump, or dirty water, or liquids other than water.

1. Specifications are approximate and subject to change without notice at manufacturer.
2. Number of taps is suggested quantity ONLY and does not take into account other factors, such as head pressure, pipe length etc. As a guide one tap = 10L/minute, one sprinkler = 15L /minute

INSTALLATION GUIDELINES

1. Before installing or servicing this pump, be certain the pump power source is disconnected.
2. Do not position the pump where it could take in solids or sludge.
3. The pump must be protected from the weather, by way of a plastic pump cover or similar.
4. Install the pump in dry and ventilated place to ensure safe operation
5. Fix the pump in place through the footplate using suitable fasteners.
6. Try to minimize the amount of bends in the PIPE LINE as much as you can. Use heavy duty flexible suction hose for the inlet, and heavy-duty pressure hose or similar for the outlet.
7. Install the pump as near the water supply as possible to reduce the suction.
8. Ensure all fittings and joints are watertight.
9. Installation and electrical wiring must adhere to state and local codes and must be completed before priming pump. All Electrical wiring must be performed by a licensed Electrician
10. (a) Pump should be connected to a separate circuit, with a safety switch installed
Note: Plugging into existing outlets may cause low voltage supply to the motor, causing blown fuses, tripping of motor overload, or burnt out motor.
(b) Surge Protection - We recommend that a surge protector is used to protect the electronics of the pump, as damage due to power surges is not covered by the Limited Warranty
11. APP multi- stage pumps come with a grounding conductor and an earthed power plug and all electrical installations must be earthed. All electrical wiring must be performed by a licensed Electrician.
12. Voltage of power supply must match the voltage of the pump .
13. WARNING - Manufacturers are not designed for and CANNOT be installed in locations classified as hazardous.
14. The following may cause severe damage to pump and will void warranty:
 - (a) Using an extension cord.
 - (b) Cutting the earth pin off the plug or using an adapter fitting or double adapter.
 - (c) Working on pump while switched on.
 - (d) Removing motor housing, unscrewing impeller, or otherwise removing impeller seal
 - (e) Pumping chemicals or corrosive liquids.
 - (f) Pumping other flammable liquids.
 - (g) Pumping hot liquids.(Exceeding 40 centigrade)

15. PUMP PRIMING AND START UP

- Dry operation will destroy the pump seals and is not covered by warranty.
- Use the priming plug at the front of the wet-end, near the inlet to fill the pump chamber with water before starting
- If the pump is installed with suction lift, a foot valve must be installed to prevent loss of prime.
Ensure the foot valve is clear of sludge to prevent blockages and loss of prime.
- Turn the pump on, if water does not flow, turn it off and repeat step 15(b)
- If it still does not pump water, check the intake & discharge pipe work is free from airlocks, other obstructions and refer the TROUBLE-SHOOTING guide on the back page.

16. SUCTION LIFT

When pumping out of a tank that is at a lower level or underground, the inlet pipe must be:

- fitted with a foot valve that is kept clear of sludge that will build up on the bottom of the tank over time.
 - the suction (intake) pipe work must be 'uphill' all the way to the pump (only RISE, not rise and fall) and be perfectly airtight and be of sufficient diameter (not less than 25mm) and be of suitable material that will not collapse (suction pipe)
- FAILURE TO FOLLOW THESE GUIDELINES WILL RESULT IN LOSS OF PRIME (No Water in Pump)

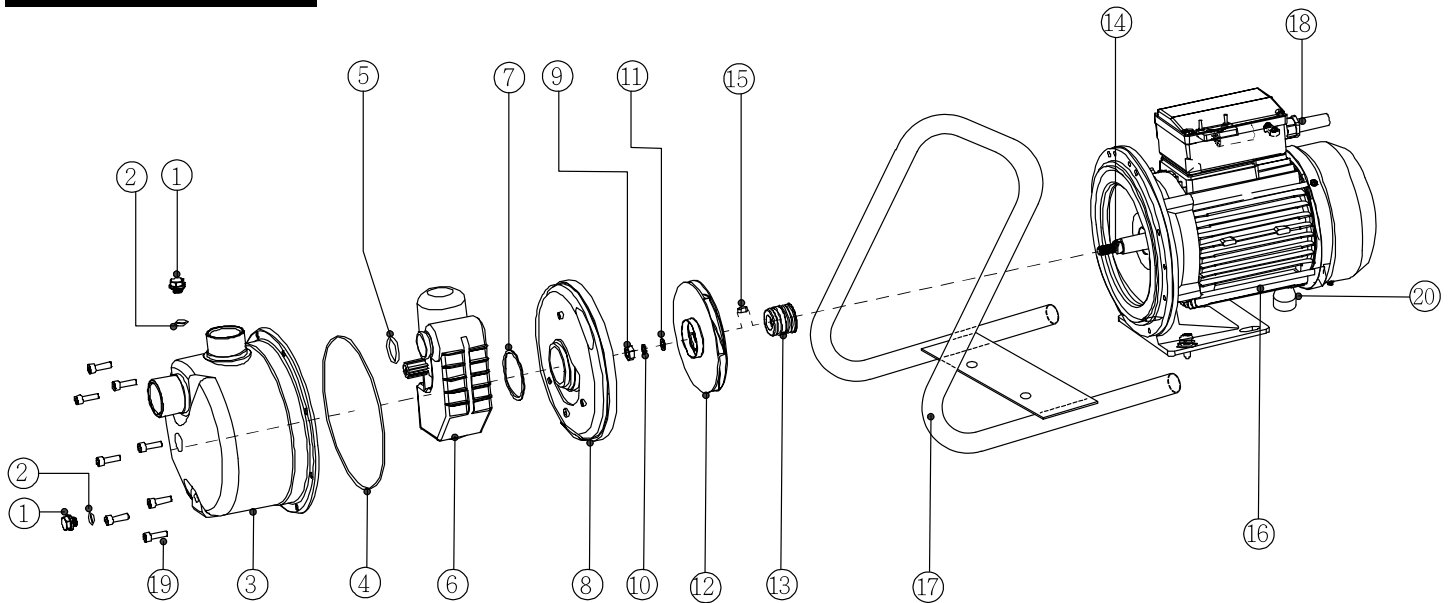
17. OVERLOAD PROTECTION

This pump has a built in thermal protection switch. The pump stops if an overload condition occurs. The motor restarts automatically after it has cooled down when the built in thermal protector resets itself. If this problem reoccurs - check as per 15 (e)

18. IMPORTANT NOTES

- Do not switch the pump on and off frequently, as this will cause damage to the electronics and void warranty.
- Do not attempt to adjust the flow via the intake pipe work
- If there is insufficient water, the motor will stop. See 15 (f)
- If the pump is idle for a long period of time or in very low temperature, the water should be drained to avoid damage to the pump.

SECTION DRAWINGS



No.	NAME	Qty.	No.	NAME	Qty.
1	Plug screw	2	11	Flap washer	1
2	O-ring	2	12	Impeller	1
3	Pump Casing	1	13	Mech. Seal	1
4	O-ring	1	14	Shaft	1
5	O-RING	1	15	Key	1
6	Ejector	1	16	MOTOR SET	1
7	Seal Pad	1	17	Portable Handel	1
8	Guide Shell	1	18	Power Cable	1
9	Hex nut	1	19	Screws	8
10	Spring Washer	1	20	Rear Foot	1

TROUBLESHOOTING CHECKLIST (CAUTION: SHUT OFF POWER TO PUMP)

Check the following before requesting service or repair.

PROBLEMS	POSSIBLE CAUSES
Pump does not run	<ul style="list-style-type: none"> ● Circuit breaker or Safety Switch is off or fuse has blown. ● Water level in tank is too low - Top up or use alternative supply ● Electrical components have been flooded - Contact a licensed electrician to rectify. ● Pump plug is not connected properly, or has been flooded or wet - Isolate power at main switch, remove plug and allow to dry. If problem continues, contact a licensed electrician. ● If all of the above are OK, then check the motor overload switch. If the overload switch has activated, investigate why this has occurred before turning it back on.
Pump runs but does not deliver water.	<ul style="list-style-type: none"> ● Check valve is installed backwards. Arrow on valve should point in direction of flow. ● Discharge shut-off valve (if used) may be closed. ● Impeller or volute openings are fully or partially clogged. Disassemble pump and clean. ● Pump is air-locked. Start and stop several times by plugging and unplugging cord. ● Vertical pumping distance is too high. Reduce distance or upgrade to a larger pump.
Pump runs and does not stop or runs when no taps in use	<ul style="list-style-type: none"> ● Leak in pipe work. Check also for leaking toilet cisterns or underground leaks (wet soil, muddy, grass growing well !) ● Pressure controller Fault - Press ReStart, If that does not help then turn the power off and on again.
Pump not pumping properly	<ul style="list-style-type: none"> ● Too high head or pump under specified - Check specifications. ● Too low water level - Check the water levels ● Loss of prime - Check foot valve (if fitted), re-prime the pump. ● Leakage of inlet pipe - Check the inlet pipe is not taking in air, check all joints.
Pump runs but delivers only a small amount of water.	<ul style="list-style-type: none"> ● Pump is air-locked. Start and stop several times by plugging and unplugging cord. ● Vertical pumping distance is too high. Reduce distance or upgrade to a larger pump. ● Bottom valve blocked - Clean or replace the bottom valve ● Too low water level - Check the suction and water levels ● Serious damage to the impeller - Impeller or volute openings are fully or partially clogged. ● Pump impeller is partially clogged with particles, causing motor to run slow and overload. Disassemble pump and clean. See below
Low Flow from Pump	<ul style="list-style-type: none"> ● Check the items in the 2 boxes above, first. ● Then if problem persists, remove the pressure controller and check that the filter screen on the bottom inlet of it is not blocked - If so clean it. If this has occurred we strongly recommend that you install a suction screen on the intake of the tank or a prefilter between the tank and the pump.
Fuse blows or circuit breaker trips when pump starts.	<ul style="list-style-type: none"> ● Motor stator may be defective, have checked by a licensed electrician, or return for service. ● Fuse size or circuit breaker may be too small. ● Impeller or volute opening are fully or partially clogged. Disassemble pump and clean.
Motor runs for a short time, then stops.	<ul style="list-style-type: none"> ● Pump impeller is partially clogged with particles, causing motor to run slow and overload. Disassemble pump and clean. ● Motor stator may be overheating. Ensure there is good ventilation for the motor. ● Impeller or volute openings are fully or partially clogged. Disassemble pump and clean.

ELECTRICAL PRECAUTIONS

Before servicing a pump, always shut off the power supply and then make sure you are not standing in water and that there is no risk of electrical shock. If the pump is direct-wired to the electrical circuit, contact your qualified licensed electrician to disconnect if required.

DO NOT ATTEMPT ELECTRICAL REPAIRS OF ANY SORT UNLESS YOU ARE A LICENSED ELECTRICIAN

Limited Warranty

For one year from the date of purchase, IRONTON will repair or replace, at its option, for the original purchaser any part or parts of its Sump Pumps or Water Pumps ("Product") found upon examination by IRONTON to be defective in materials or workmanship. Please call IRONTON for instructions or see your dealer. Be prepared to provide the model number when exercising this warranty. All transportation charges on Products or parts submitted for repair or replacement must be paid by purchaser.

This Limited Warranty does not cover Products which have been damaged as a result of accident, abuse, misuse, neglect, improper installation, improper maintenance, or failure to operate in accordance with IRONTON's written instructions.

THERE IS NO OTHER EXPRESS WARRANTY. IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO ONE YEAR FROM THE DATE OF PURCHASE. THIS IS THE EXCLUSIVE REMEDY AND ANY LIABILITY FOR ANY AND ALL INDIRECT OR CONSEQUENTIAL DAMAGES OR EXPENSES WHATSOEVER IS EXCLUDED.

Some states do not allow limitations on how long an implied warranty lasts, or do not allow the exclusions or limitations of incidental or consequential damages, so the above limitations might not apply to you. This limited warranty gives you specific legal rights, and you may also have other legal rights which vary from state to state.

In no event, whether as a result of breach of contract warranty, tort (including negligence) or otherwise, shall IRONTON or its suppliers be liable for any special, consequential, incidental or penal damages including, but not limited to loss of profit or revenues, loss of use of the products or any associated equipment, damage to associated equipment, cost of capital, cost of substitute products, facilities, services or replacement power, downtime costs, or claims of buyer's customers for such damages.

You **MUST** retain your purchase receipt along with this form. In the event you need to exercise a warranty claim, you **MUST** send a **copy** of the purchase receipt along with the material or correspondence. Please call IRONTON for return authorization and instructions.