

INSTRUCTION MANUAL



Solar Bilge Pump

Model # 750-7AH-TD

Introduction

This compact, self-contained Solar Bilge Pump lives in the bottom of a dinghy or other small craft. A float switch inside the unit detects incoming rain water. The pump will then activate and will discharge the water through the $\frac{3}{4}$ inch discharge outlet. Connected to the outlet is a drain hose which is ran overboard. The unit has a unique time delay feature to keep the pump running after the float switch turns off which maximizes the amount of water removed from the dinghy.

There is a 2 watt solar panel mounted to the top of the enclosure in order to keep the interior battery charged and at peak condition when exposed to sunlight.

Prepare For Use:

Remove your pump from the box. Use a Phillips Screwdriver to unscrew the 4 tabs (they only rotate 90 degrees). Remove cover being careful of the wires connected to the solar panel. See figure 1. Connect the black wire to the battery. See figure 2. Place cover back on the box making sure that all the wires are clear and tucked under the cover and that they are not being pinched. Tighten the 4 tabs.

Installation:

Place Solar Bilge Pump in your dinghy making sure it is placed in direct sun light. The solar panel is what is recharging the battery. The pump is able to be permanently mounted to the floor of your dinghy using the four holes directly on the bottom. Connect a $\frac{3}{4}$ " ID hose to the Pump using a Stainless Steel hose clamp. Place the other side of the hose outside of the dinghy making sure the hose is secured as so it will not fall back into the dinghy. See typical installation photo.

Please note:

The sea joule bilge pump systems turns on in about 2" of water and leaves behind approximately $\frac{1}{2}$ " of water. You can tip the boat to pool the remaining water toward the bilge pump, this helps the pump to pump out as much water as possible from the boat.



Removing Cover
Figure 1



Connecting Power
Figure 2



Typical Installation
Figure 3



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Time Delay:

To maximize the amount of water which is removed from the dinghy this unit has a unique time delay feature. Using this feature will keep the pump running even after the float switch itself turns off. The time delay is set for approximately 100 seconds which starts when the pump starts. For most dinghy sizes the pump will run for 50 seconds then the float switch will close, then the remaining water is drained out of the boat using the delay feature to run for another 50 seconds. The timer circuit will not use any power when the pump is off.

The time delay has an adjustable range of 48 to 463 seconds. If you would like to change the time; remove pump cover and the time delay module cover. See figure 4. When adjusting the trim pot on the PC Board turning the trim pot clockwise will add time and turning trim pot counter clockwise will subtract time. See figure 5.

Storage:

At the end of the season remove the Solar Pump from the boat. During the winter keep it inside to avoid freezing temperatures. At the beginning of the next season place the Solar Pump in the sunlight for a few weeks before putting it back in the dinghy or manually charge the battery. (Replace battery after 3 to 4 years of use).

Notes:

Do not sit on the Solar Bilge Pump.

Do not submerge pump under water. This pump is designed to maintain a low level of water in your dinghy not refloat it.

Keep this in mind, should a gas container spill in your dinghy this pump will transfer the gas overboard as it does for water. You are responsible for the over-board discharge of all hazardous materials.

SPECIFICATIONS:

Pump rate: 750 GPH

Discharge Outlet: 3/4"

Battery: 12 volt Gel Cell 7 amp. Hour

Weight: 10 Lbs.

Solar charge: 2 Watt (130 milli amp max.)

Solar controller: Float Voltage 13.8 volts

Power usage: No power used when pump is not running.

Fuse : 5 amp.



Removing Time Delay Enclosure
Figure 4



Time Delay Adjustment
Figure 5

1 Year Warranty

All products of Sea Joule Marine Inc. are warranted to be free of defects of material or workmanship. Liability is limited to repairing or replacing at our factory, without charge, any material or defects which become apparent in normal use within 1 year from the date the equipment was shipped. Equipment is to be returned, shipping charges prepaid and will be returned, after repair, shipping charges paid. If unit was submerged under water warranty is void.

Sea Joule Marine Inc. shall have no liability for damages of any kind to associated equipment arising from the installation and /or use of the Sea Joule Marine Inc. products. The purchaser, by the acceptance of the equipment, assumes all liability for any damages which may result from its installation, use or misuse, by the purchaser, his or its employees or others.