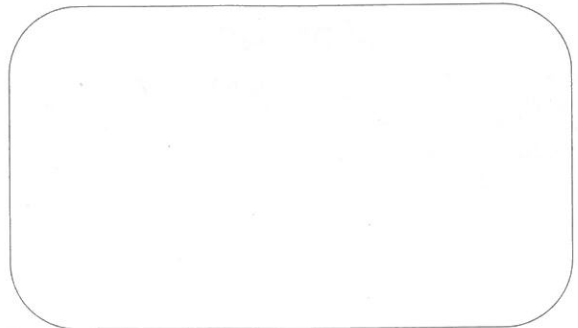


CE BILGE PUMP

TROUBLE-SHOOTING SECTION

Symptom	possible cause	cure
Reduced Flow	Plugged strainer	Clean outside of strainer and clean debris from around impeller.
	Discharge line plugged	Clean out hose by backflushing.
	Low battery voltage	Check battery condition and charge if necessary.
	Kinked discharge hose	If hose is kinked because of sharp bend, convert to hose which will not kink at bends.
No water pumped	Wire connections	Make sure wire connections are not corroded. Visual check is not enough -a slight pull on each wire will tell if the wires are still joined. Check to be sure no wire joins are hanging down into the water.
	Fuse melted	Check fuse to see that it is the correct size if fuse still blows, check impeller through inlet opening to be sure it is not jammed or stuck with debris.
	Float switch failure	Lift end of float switch up -if pump runs, switch is OK. If pump does not run, turn Manual SWITCH TO on position-if pump runs, automatic switch has failed.

RETURNERS



Symptom	Possible cause	Cure
Pump won't shut off	Something under float	Clean under the float to make sure debris is not holding the float up.
	Stuck float	Check to see that the float is loose and free of gummy bilge oil. If float action appears sluggish and/or the float does not move freely, intermittent or sporadic operation of the pump may occur. This condition is usually the result of oil and/or Dirt accumulating in and around the movable parts of the switch. To correct, try soaking the entire switch in Marine cleaner for ten minutes, agitating several times and checking for smooth and free operation of the float. Repeat if necessary.
	Switch mounted too low	If the pump is sucking air and the automatic switch has not reached the OFF position, then the switch may be mounted too low for the pump and should be reinstalled at least 1/4 higher than the pump base.
	IMPORTANT	
Wires over-heated. Melted insulation	Combination of jammed impeller and wrong size fuse.	Be sure impeller is clean of debris and is free to rotate Reduce fuse to proper size Replace damaged wiring and/or switch.
Repeated melted fuse	Fuse size or jammed impeller	Be sure fuse has amp rating Check impeller to see that it is not bound up by fish line, etc.

CONGRATULATIONS

You have just purchased one of the best quality bilge pumps available in the industry. It was developed after years of experience, research and testing by our research staff and thousands of users. It is built to give years reliable trouble free performance. Most early pump failures are due to improper installation and wiring. Please read and follow the instructions carefully and your pump will provide you with the maximum output and the life for which it was designed. These pumps are rated (Ignition protected)

