

CAL PUMP LIMITED WARRANTY

Every Cal Product is tested before shipment and when properly used and maintained will provide years of satisfaction. In the unlikely event that our material or workmanship should prove defective within the warranty period, return the pump along with proof of purchase to the original dealer for inspection and replacement if needed. If you prefer, the product may be returned directly to Cal Pump for repair or replacement. Be sure to include your name, address, proof of purchase, and reason for return. All pumps must be returned freight prepaid. Warranty does not cover any costs associated with the installation or removal of products subject to warranty claims. This limited warranty is extended only to the original purchaser and is void if any of the following apply:

1. The pump has been disassembled.
2. Alterations have been made to the cord or plug.
3. The pump has been run dry.
4. Flammable liquids, solvents, chemicals, or abrasive solutions were pumped.
5. Obvious abuse or misuse of the product took place.

All implied warranties including the implied warranty of merchantability are limited in duration to the same extent as the express warranty as allowed by the state law. Cal Pump expressly disclaims and excludes any liability for consequential or incidental damages for breach of any express or implied warranty, as allowed by the state law.

WARRANTY PERIOD

One Year from date of purchase.

DEALERS/DISTRIBUTORS

You are authorized by Cal Pump to make a warranty determination on our behalf.

Please exercise your own good judgment in accordance with the provisions of the Cal Pump warranty listed above.

For credit or replacement, return the product to Cal Pump, freight prepaid.

RETURN PRODUCT TO:

Cal Pump
28606 W. Livingston Ave Valencia, CA 91355
Attn: Service Department
P/N 13751 REV (02/05)



Simple solutions. Beautiful results.

28606 W. LIVINGSTON AVE • VALENCIA, CALIFORNIA 91355

TORPEDO PUMP



General instructions

Introduction/ Overview

Congratulations on your purchase of the Cal Pump 'Torpedo Pump'.

To ensure efficient and faultless operation, it is, however, important to read carefully and strictly comply with this service manual.

Safety Measures

Caution: Before assembly and startup, carefully read this service manual.

For safety purposes do not use the pump until you have read the instructions.

ELECTRICAL SUPPLY

Before connecting the pump to the power source, **verify that the power source is of the same voltage and frequency listed on the pump.** The National Electric Code and most local codes **REQUIRE** that a ground fault circuit interrupter (GFCI) be installed in the branch circuit feeding your pump. For your own safety we urge you to comply with this regulation. Extension cords or splices should **NEVER** be used with submersible pumps. The Power Control Center (PC50) can be used with the T1500 and the T4000 and is available through your dealer.

! Warning !

Risk of electrical shock – This pump is supplied with a grounding conductor and grounding-type attachment plug. **To reduce the risk of electrical shock, connect only to a properly grounded, grounding-type receptacle with ground fault interrupter.**

The temperature of the inlet liquid must not exceed 30° C (86° F).

Do not lift, carry or attach the pump by its electric power cable.

Before starting the pump check that the power cable and/or socket are not tampered with or damaged.

Before carrying out any maintenance on the pump, the power cord must be unplugged from the power service. The pump is started by plugging it into a receptacle. There is no on/off switch.

If the bottom of the pond is sandy or muddy, operate the pump suspended from a rope or chain or install it on a suitable base to prevent its intake from clogging.

Operation / Application

The submersible Torpedo Pump is designed for the following applications:

- Water displays
- Ponds
- Aeration
- Waterfalls
- To power large bio-filters
- Available in four models
- 20' power cord for convenience
- 40' power cord on the T7500 and T10000
- Use in or out of water
- Non-corrosive construction
- Large intake and discharge connection

Operating Conditions

This pump is designed to transfer clear, slight turbid and wastewater.

This pump must not be used to pump flammable, corrosive, gaseous or explosive liquids. The max. Temperature of the pumped liquid must not exceed 30° C (86° F) in continuous operation.

Do not run the pump dry.

The pump may be submerged in water during operation. The pump may be mounted out of water, below water line in any position. When mounting the pump out of water, the pump must be primed initially, by flooding pump volute chamber. To facilitate pump priming, we suggest that the inlet hose be connected and submerged, then fill the volute chamber by sinking the pump with its discharge outlet facing up, complete the discharge connections, the pump is now ready to use.

The power cord must not be used to lift or carry the pump. To lower or lift the pump from pond, attach a rope to the handle.

In freezing temperatures the pump must be removed from water and drained. Under no circumstances should the pump be left in a frozen body of water, or with any residual water left in the pump.

Maintenance and Care

Before starting any maintenance jobs on the pump, it is essential to unplug the power cord from the electrical socket to ensure that it cannot restart on its own.

! WARNING !

DO NOT ATTEMPT TO DISASSEMBLE THIS PUMP.

'WARRANTY WILL BE VOID!'

THIS PUMP IS FACTORY SEALED. IF IMPELLER IS CLOGGED WITH DEBRIS, REMOVE HOSE FITTINGS, BACK FLUSH AND REMOVE DEBRIS FROM SUCTION END OF PUMP.

The pump may require cleaning periodically, if a reduction in flow is noticed, large debris may have entered and lodged in the pump and/or the impeller. Back flushing may be required. 'WARNING' DO NOT ATTEMPT TO DISASSEMBLE THIS PUMP FOR ANY REASON. WARRANTY WILL BE VOID!

End of Season: At the end of the season remove the pump from the pond and clean it as outlined above. Protect the pump from freezing, (see 'Operating Conditions').

TROUBLE SHOOTING GUIDE

<u>PROBLEM</u>	<u>SOLUTION</u>
No water flow from pump.	1. Insure that the power is on to the pump. 2. The pump is not primed. The inlet of the pump must be below the water surface.
Low water flow from the pump.	1. Check that there is no debris blocking the intake screen or impeller. 2. The pump is not large enough. Select a larger capacity pump. 3. Check discharge hose for blockage.
Pump runs intermittently.	1. The pump is too hot. Check to see if there is debris clogging the suction screen, etc.