



# Installation and Owners manual

***For the following wash down model number:  
700S Series***

***Approximate Installation Time: 2 Hours***

***Tools Required:***

***#2 Phillips Screw Driver; Power Drill; 7/64" Drill Bit; Jig Saw; 1" Hole Saw;  
Hose Cutter; Wire Crimper; Teflon Plumbers Tape; Marine Sealant; Pencil.***



**HEATER CRAFT®**

*Improving life on the water since 1987*



## **Operation Warning:**

*Carbon Monoxide (CO) is emitted from the engines' exhaust. Do not run the engine without proper ventilation. Do not run the engine in a confined space or where back drafting may occur. For more information about carbon monoxide refer to ABYC standards: A-7, T-22(1), and TH-23; or contact one of the following agencies.*

*American Boat and Yacht Council, Inc* **410-956-1050**

*United States Coast Guard* **754-441-3287**  
*www.uscgboating.org*

*National Marine Manufacturers Association* **313-946-6200**  
*www.nmma-medialink.com*

*Boat U.S.* **703-823-9550**  
*www.boatus.com*

**Heater Craft**  
**6672 Boekel Road**  
**Rathdrum, ID 83858**  
**Attn: Technical Support**  
**(208) 687-4400**  
**Fax (208) 687-9700**  
**www.heatercraft.com**

# Heater Craft 2 Year Limited Warranty

Heater Craft warrants your shower/wash down\* system to be free from defects in material and craftsmanship under normal use and service by the original consumer purchaser for a period of (2) two years from the date of purchase. This limited warranty does not apply if the system has been damaged by accident, improper installation, unreasonable use, lack of proper maintenance, unauthorized repairs or modifications, or causes not arising from defects in materials and craftsmanship.

Heater Craft's obligation under this warranty are limited to repair of the product at Heater Craft's production facility, or the replacement of the product at Heater Craft's option and at Heater Craft's expense. Any expense involved in the removal, reinstallation, or transportation of the product is not covered by this warranty. Prior to return of any product to Heater Craft customer must first call Heater Craft customer service (208) 687-4400 and request a return authorization number. This number must be marked on exterior of carton for easy identification. ***Warranty product received at Heater Craft without a Return Authorization Number may be returned at expense of sender.***

Send defective product to:

**Heater Craft**  
**6672 Boekel Road**  
**Rathdrum, ID 83858**  
**Attn: Warranty Dept.**  
**[www.heatercraft.com](http://www.heatercraft.com)**

Postage must be prepaid, and the original dated proof-of-purchase must be included. Heater Craft will not be liable for any damages sustained in transport due to improper packaging or handling. The acceptance by Heater Craft of any product returned shall not be deemed as an admission that the product is defective or in any violation of any warranty.

This warranty is Heater Craft's only express warranty of this product. No implied warranty shall extend beyond (2) two years from the date of the original consumer purchase. Heater Craft will not be liable for any damages, for loss of use of this product, nor for any consequential damages, costs or expenses.

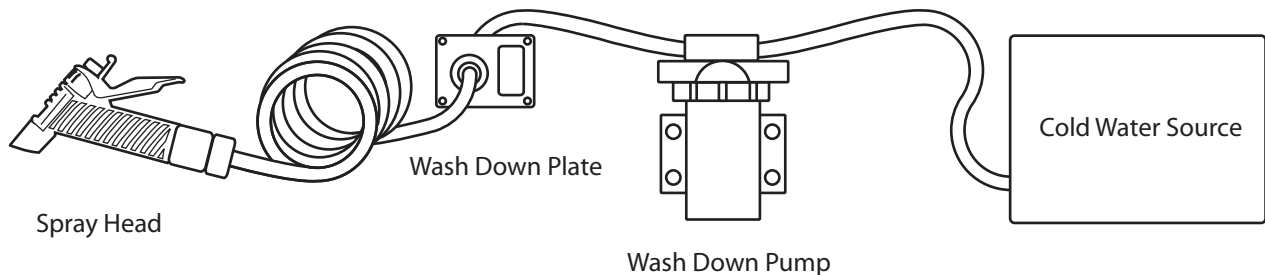
Some states do not allow limitations on how long an implied warranty lasts or the exclusion of incidental or consequential damages, so the above limitations and exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights not mentioned here that vary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

***\*Any shower or wash down product subjected to direct saltwater use will have a (1) one year warranty. Direct saltwater use is defined as having saltwater circulating through the shower or wash down unit.***

# Recommendations

**Important Note:** We recommend that the wash down pump is not mounted into the bilge, or any location or in such a manner that it would be easily submerged. The warranty for the pump may be void if, upon disassembly, Heater Craft determines that the pump has been submerged in water for any length of time.

1. Review Heater Craft installation instructions and warranty information completely before beginning installation.
2. Lay out the wash down system in the boat before beginning installation to be sure the mounting location for all components, as well as the routing of water hoses and wiring will be sufficient (see general diagram below)



*Model shown is 700-S*

3. Use silicone sealant or Teflon tape on the threads of all brass fittings before installing to prevent water leakage.
4. Hoses and wiring should be routed away from moving parts, high heat sources such as engine exhaust manifolds, and secured to prevent penetration from sharp objects or edges. All water hoses and wiring should be as short as possible for efficiency. Water hoses should be routed to prevent any kinking or pinching that may restrict water flow.
5. Wash down components should not be installed on or near high heat sources such as engine exhaust manifolds.
6. Hose clamps should be fastened near the end of the hose to prevent the hose end from "mushrooming", and to prevent leakage.
7. The wash down pump, water hoses, and all components should be winterized by draining the water to prevent damage caused by freezing.

8. Applications may vary! If you have any questions or suggestions regarding your Heater Craft product, please contact our main office.

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# Wash Down Plate Installation

1. Determine the location for the wash down plate. Consider the routing of the water hoses and wiring.

2. Secure the wash down plate in place.

The wash down plate should be accessible for easy connection of the spray hose. A flat surface area of 3.75" x 2.75" is needed for proper installation.

3. Cut a rectangular opening 2.60" x 1.75". Mark the mounting holes and pre drill using 7/64" drill bit.

**Questions?**

**Call For Technical Support**

**(208) 687-4400 or**

**Fax (208) 687-9700**

**[www.heatercraft.com](http://www.heatercraft.com)**

# Wash Down Pump Installation

**IMPORTANT NOTE:** We recommend that the wash down pump is not mounted into the bilge, or any location or in such a manner that it would be easily submerged. The warranty for the pump may be void if, upon disassembly, Heater Craft determines that the pump has been submerged in water for any length of time.

## Mounting the Wash Down Pump

1. Determine the location for mounting the wash down pump. To insure proper draining for cold weather use, the wash down pump must be mounted above the static water line of the hull. Make sure the rubber feet are attached to the pump base before mounting pump. If pump will be mounted on fiberglass we recommend pre drilling screw holes to reduce chipping. Use the four stainless steel screws provided and tighten as needed.
2. Install the wing-nut fittings by hand then mount the pump in place.

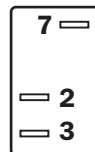
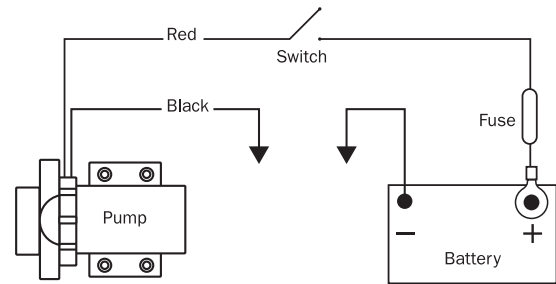
## Wiring the Wash Down Pump

The pump wires should be routed with the factory wiring harness whenever possible. The wires should be routed away from moving parts, high heat sources and sharp edges or objects.

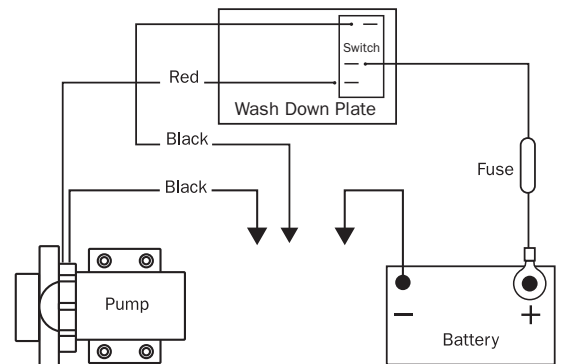
**700-S** The wash down pump and switch should be protected with a 10 amp in-line fuse.

- **Red positive lead**– Wire to an on/off switch with a 12V DC power source.
- **Black negative lead**– Wire to ground source.

- **3**–Red power wire from wash down pump.
- **2**–Wire to a 12V DC power source.
- **7**–Wire to a ground source.
- **Black negative lead (from wash down pump)**– Wire to a ground source.



Switch detail



## Questions?

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# Water Source

## *On-Board Fresh Water System*

***Note: Due to variations in boat water systems and boat sizes, the following are only general instructions.***

If you are installing the wash down system to work in conjunction with the existing on-board water system, please consult the boat manufacturer before beginning installation. If you are not installing an additional pump for the wash down system, hose connections must be made before line is pressurized.

**Questions?**

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# Testing Wash Down Installation

1. The wash down pump should operate with the on/off switch. The wash down pump will automatically shut off once it has built up approximately 40 psi in the outlet hose.
2. Check all hose and fitting connections to be sure there are no water leaks. Check the routing of all hoses to make sure they are away from moving parts and high heat sources, and secured from sharp objects or edges and are not kinked or pinched in any way.
3. Adjust the water temperature by turning the corresponding valve for the desired water temperature.

## Troubleshooting Wash Down System

### *Poor Water Pressure*

1. Make sure water source has water.
2. Check on/off switch and condition of fuse to pump.
3. Check the routing of all hoses to be sure they are not kinked or pinched in any way.
4. The wash down kit may be equipped with a strainer that can become clogged. To clean strainer, remove screw-on top and inspect for debris. **IMPORTANT:** Do not remove screens. In many cases the debris can simply be scraped off or can be back-flushed with water pressure.
5. Remove spray head and check for debris.
6. Pump pressure can be tested using an auxiliary hose from input side of the pump into a bucket of water.



## Winterizing Wash Down System

***NOTE: If anti-freeze has been drawn into the system, be sure to flush the system completely before using.***

1. The wash down pump and all hoses should be completely drained of water to prevent damage. This can be easily accomplished by removing the inlet and outlet hoses from the wash down pump (be sure to keep the inlet hose above the water line of the boat to prevent flooding the bilge). With the hoses disconnected momentarily turn the pump on to purge any trapped water then remove the wash down nozzle from the outlet hose and blow back through the hose to purge any water from it. Once the water is removed reattach the inlet and outlet hoses to the wash down pump.
2. RV/MARINE anti-freeze can be drawn into the wash down system by removing the hose from the water source and then inserting it into a container of anti-freeze. Turn on the wash down pump until anti-freeze sprays out of the shower head.

***Questions, please call us For Technical Support (208) 687-4400, [www.heatercraft.com](http://www.heatercraft.com)***