

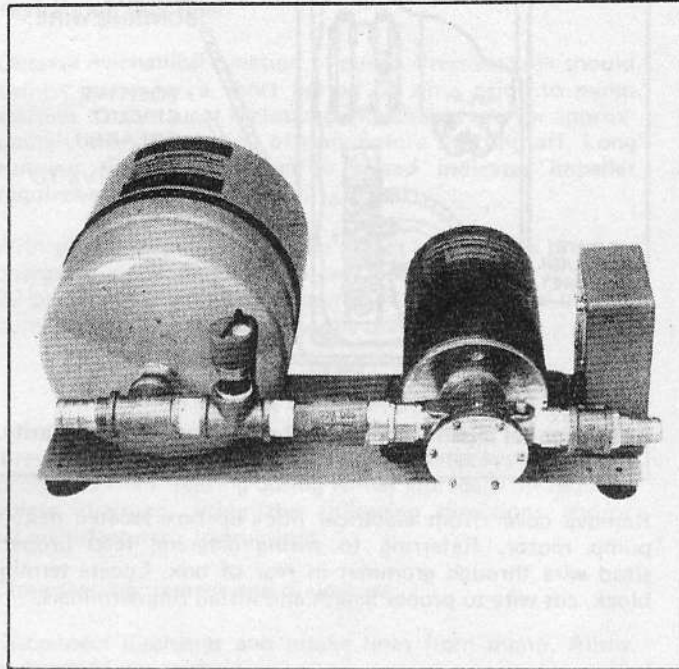
# JABSCO®

Self-Priming Pumps

High Demand Water Pressure System

Models: 18800-4000 12 v D.C.  
 18800-4001 32 v D.C.  
 18800-4002 115 v A.C.

"Deck-Wash" Series Product Data



## FEATURES

- Bronze Pump Head and Fittings
- Heavy Duty Neoprene Impeller
- Ports are 3/4" Bronze Hose Barb
- Prepressurized Pneumatic Accumulator Tank
- Automatic Pressure Switch
- High Capacity; Compact Size

## SPECIFICATIONS

Flow:	12 U.S. G.P.M. @ 0 P.S.I.	40 Litres/Min. @ 100 k Pa
Cut-In Pressure:	20 psi Nominal 140 k Pa	
Cut-Out Pressure:	33 psi Nominal 230 k Pa	
Vert. Dry Suction Lift:	10 ft. 3 m	
Ports:	3/4" 19mm Bronze Hose	
Shipping Weight:	35 lbs. 16 kg	

## APPLICATION/PERFORMANCE

The Jabasco Deck-Wash Series Automatic Water Systems are designed for the larger pleasure boat and the commercial vessel requiring up to 12 gallons per minute, to service multiple fixtures. The integral pneumatic pressure tank minimizes rapid cycling and yields smooth flow.

The self-priming Jabasco, flexible impeller bronze pump in conjunction with the bronze check valve assures fast priming and holding of static system pressure.

*old 18800-1000* →

## REGULATIONS

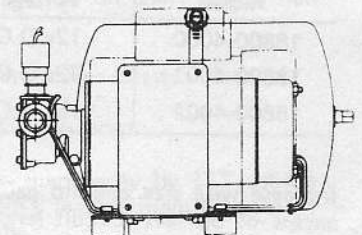
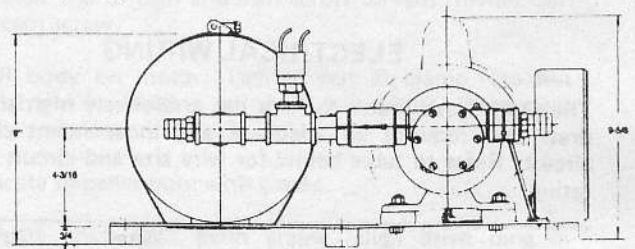
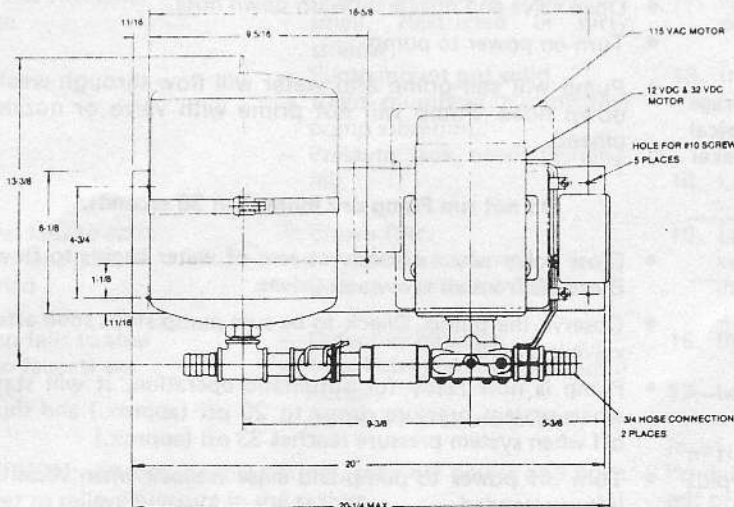
Meets Title 33, Chapter I, Part 183, Subpart I, United States Coast Guard Electrical Regulations, including paragraph 183.410 concerning ignition protection.

## STANDARD MODELS

Model	Voltage	Amps	Fuse*	Fuse Quantity
18800-4000	12v D.C.	25-45	3AG/AGC25	2
18800-4001	32v D.C.	9-17	3AG/AGC20	1
18800-4002	115v A.C.	5	None	—

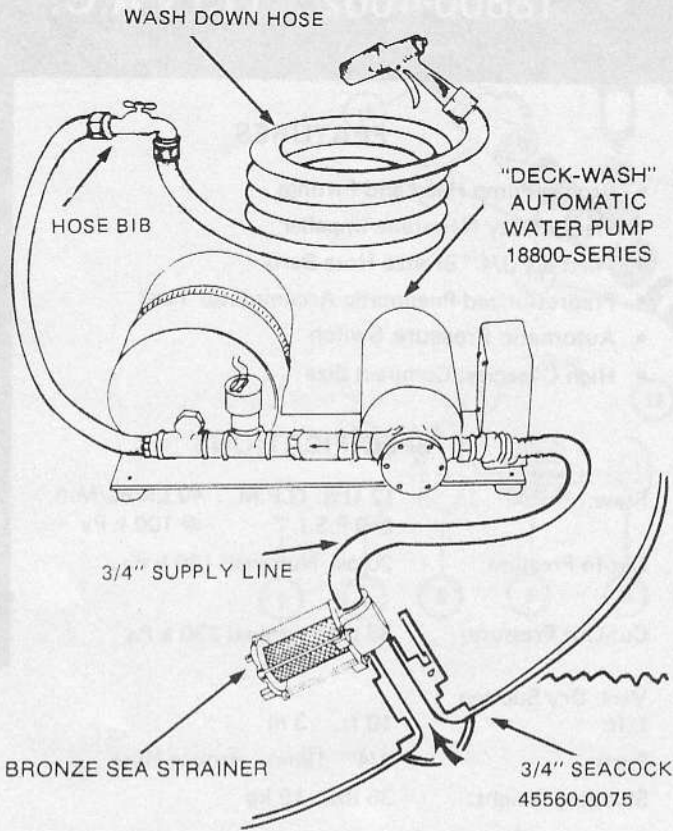
\*Fuse block is located inside the electrical hook up box. See Wiring Diagram.

## DIMENSIONAL DRAWING



MODEL 18800-4000-01-02 DECK-WASH

## PLUMBING



## MOUNTING

The Deck-Wash is self-priming. Mount above or below the water line on a solid surface using the five (5) rubber feet supplied. The mounting surface need not be level.

## PLUMBING TANK TO PUMP

Supply Line must be 3/4" I.D. non-collapsible or reinforced hose. The seacock and plumbing fittings must have 3/4" (19mm) I.D. (inside diameter). A bronze sea strainer with 3/4" hose fittings should be installed to protect check valve from debris. Maximum supply line length should be limited to 20 feet (6m). Intake strainer should be mounted above the water line. Double clamp all connections.

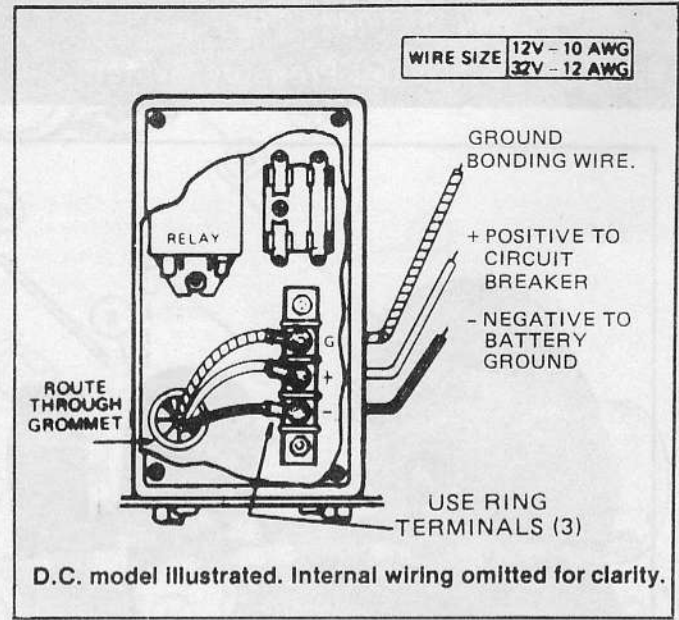
## ELECTRICAL WIRING

The Deck-Wash Water System has a relatively high amperage draw and requires an adequate and independent electrical circuit. Refer to table below for wire size and circuit breaker rating.

Model	Voltage	Wire AWG	Circuit Breaker
18800-4000	12v D.C.	10	50
18800-4001	32v D.C.	12	20
18800-4002	115v A.C.	16/3	15

Increase wire size beyond gauge recommended for circuit in excess of 50 feet (circuit length equals positive (+) run plus negative (-) run).

## WIRING



Remove cover from electrical hook-up box located next to pump motor. Referring to wiring diagram, feed properly sized wire through grommet in rear of box. Locate terminal block, cut wire to proper length and install ring terminals.

## D.C. Models

- Install bonding system ground to top terminal.
- Install positive (+) lead from distribution panel to center terminal.
- Install negative (-) lead from battery ground to bottom terminal.

A.C. Models — prewired from the factory.

## OPERATION

- Open seacock to pump inlet.
- Open valve and nozzle on wash down hose.
- Turn on power to pump.
- Pump will self-prime and water will flow through wash down hose. Pump will not prime with valve or nozzle closed.

**Do not run Pump dry more than 30 seconds.**

- Close valve when a steady stream of water begins to flow. Bleed air from all raw water valves.
- Observe the pump. Check to be sure pump stops soon after valve is closed.
- Pump is now ready for automatic operation. It will start when system pressure drops to 20 psi (approx.) and shut off when system pressure reaches 33 psi (approx.)
- Turn off power to pump and close seacock when vessel is left unattended.



## MAINTENANCE

It is recommended, as with other major systems aboard, that periodic inspection is made of the Jabsco Water Pressure System. The following check list may be helpful:

- Inspect sea water strainer for debris which could restrict suction flow.
- Observe mechanical function of pump. Pressure tank should deliver water for a short period of time prior to pump starting. Once faucet is closed pump should run for approximately the same period of time before shutting off. **Long running time after faucet is closed indicates impeller requires replacement.**
- With power to pump off and a faucet open, check pressure charge in pressure tank. Correct pressure range is 18 to 22 psi or cut-in pressure of pump. A tire gauge and bicycle pump can be used to fine-tune the pressure tank.

## WINTER STORAGE

To prevent accidental damage, the entire water system should be protected from freezing during winter storage. This requires complete draining, using the following directions and/or vessel manufacturer's instructions:

1. Close seacock, remove and drain hose.
2. Disconnect discharge and intake lines from pump. Allow pump and lines to drain.
3. Reconnect the lines, close the drains but leave faucets open. The water distribution system is now dry and ready for winter storage.

## SERVICE TROUBLESHOOTING

Problem	Causes
Pump operates but no water flows through faucet.	<ul style="list-style-type: none"><li>- Kink in inlet hose to pump.</li><li>- Dirty or hard-to-open in-line check valve.</li></ul>
Pump cycles on and off when faucets are closed.	<ul style="list-style-type: none"><li>- Water leak in the plumbing.</li><li>- Defective impeller.</li><li>- Dirty or defective check valve.</li></ul>
Pump operates roughly and has excessive noise.	<ul style="list-style-type: none"><li>- Intake line is restricted, kink in suction hose or fittings too small. Restricted or dirty strainer.</li><li>- Pump mount not solid.</li><li>- Rigid plumbing transmitting pump vibration.</li><li>- Pressure tank needs recharging.</li></ul>
Pump fails to start when faucet is opened	<ul style="list-style-type: none"><li>- Blown fuse.</li><li>- No voltage to pump.</li><li>- Defective pressure switch.</li></ul>
Pump fails to stop when faucets are closed.	<ul style="list-style-type: none"><li>- Defective impeller.</li><li>- Insufficient voltage to pump motor.</li><li>- Defective pressure switch.</li></ul>

**CAUTION:** Before servicing pump, turn off power and open faucet to relieve pressure in the system.

## SERVICE INSTRUCTIONS

### Impeller Service Kit Installation.

If only impeller (Key 4) is to be replaced, follow steps 1, 2, 14, 15, and 16.

### DISASSEMBLY

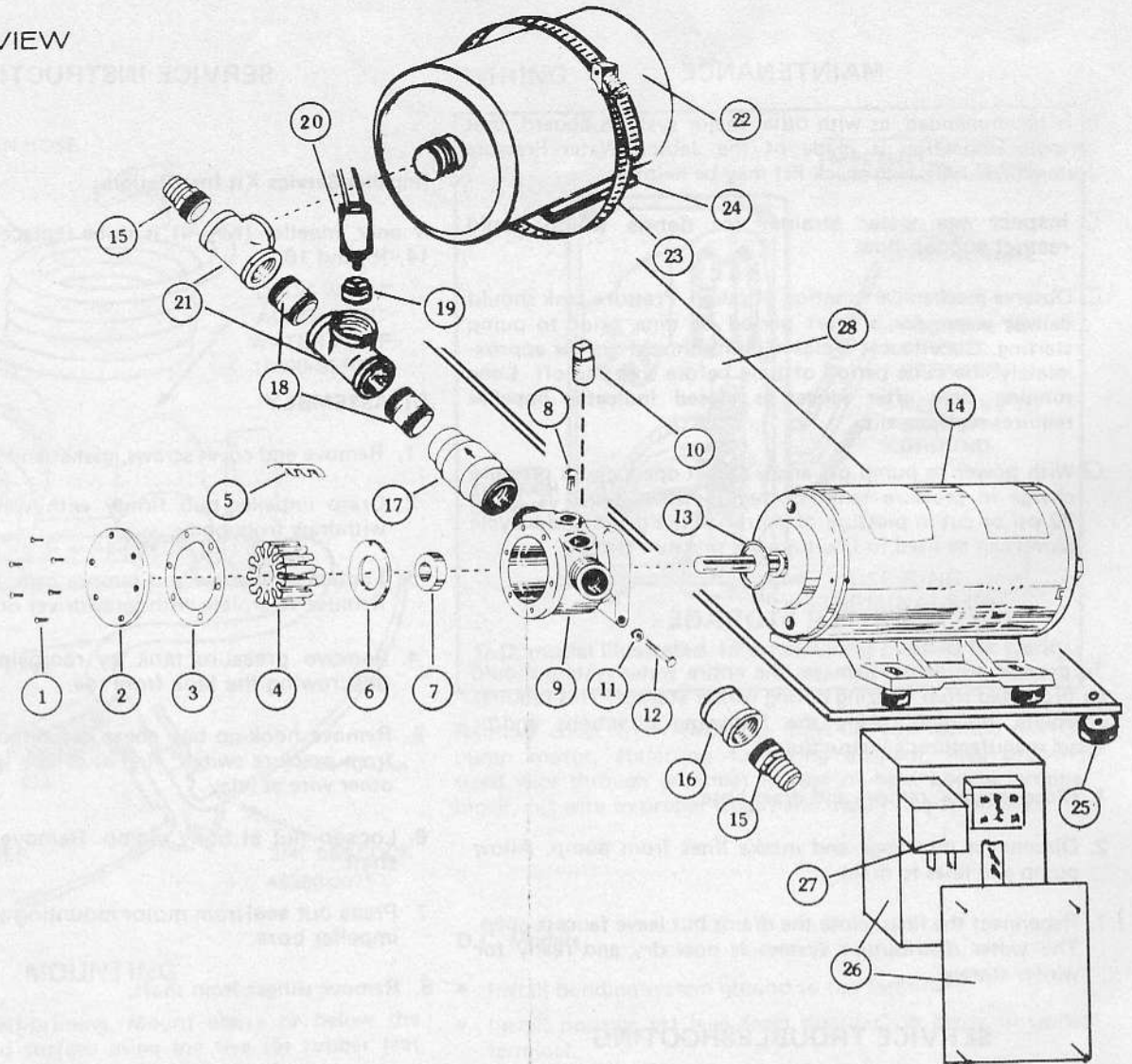
1. Remove end cover screws, gasket and end cover.
2. Grasp impeller hub firmly with water pump pliers and withdraw from body.
3. Loosen cam screw and remove cam. Clean off permatex. Remove wearplate with screwdriver or hooked wire.
4. Remove pressure tank by removing band clamp and unscrewing the tank from tee.
5. Remove hook-up box cover and disconnect leads coming from pressure switch; Red at center (+) terminal; and the other wire at relay.
6. Loosen nut at body clamp. Remove pump from motor shaft.
7. Press out seal from motor mounting end of body toward impeller bore.
8. Remove slinger from shaft.

### ASSEMBLY

9. Install slinger and position 1/4" from motor boss.
10. Press seal into seal bore with lip facing toward the impeller bore. Apply grease to back of seal lip.
11. Install wearplate, aligning slot with dowel pin.
12. Permatex top of cam and cam screw threads. Install cam with cam screw.
13. Install body on motor. Tighten nut at clamp. Do not overtighten or binding of shaft will result. Reconnect wires.
14. Lubricate impeller bore with grease.
15. Lubricate shaft O.D. with grease, align drive ding in extended impeller insert with flat on shaft and install impeller.
16. Install gasket, end cover and end cover screws.
17. Install pressure tank and hold down strap.

Insist on genuine Jabsco parts — made only by ITT Jabsco Products — the original and world's leading manufacturer of self-priming flexible impeller pumps.

EXPLODED VIEW



PARTS LIST

Key	Description	Part Number	Qty.
1†	Screw (End Cover)	91002-0020	6
2†	End Cover	11830-0000	1
3*†	Gasket	11816-0000	1
4*†	Impeller, Neoprene	18815-0001	1
5†	Cam	490-1000	1
6†	Wearplate	2235-0000	1
7*†	Seal (Shaft)	92700-0420	1
8†	Screw (Cam)	91003-0010	1
9†	Pump Assembly	18814-0000	1
10	Plug	92650-0070	1
11†	Nut (Body Clamp)	91105-0030	1
12†	Bolt (Body Clamp)	91095-0090	1
13	Slinger	6946-0000	1
14	Motor 12v D.C.	93004-2625	1/8753-0011
	Motor 32v D.C.	93004-2624	
	Motor 115v A.C.	93004-2622	

PARTS LIST

Key	Description	Part Number	Qty.
15	Port, 3/4 Brass	45561-0075	2
16	Union, Brass	3/4	1
17	Check Valve	18816-0000	1
18	Nipple, Brass	3/4 x close	2
19	Bushing, Brass	18807-0000	1
20	Pressure Switch	44812-0000	1
21	Tee, Brass	3/4	2
22 <sup>o</sup>	Pressure Tank	18810-0000	1
23 <sup>o</sup>	Band Clamp	—	1
24	Pad, Rubber	18307-0000	1
25	Feet, Kit of 5	18818-0000	9
26	Box & Cover	18819-0000	1
27	Relay 12v	18817-0000	1
	Relay 32v	18817-0001	
28	Base Plate	18805-0000	1
29*	Service Kit	90269-0001	

**ITT JABSCO**

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