



## Saltwater Washdown Kit WD1815 / WD1825

ENG

Thank you for purchasing this Whale® product.

For over 60 years, Whale has led the way in the design and manufacture of freshwater and waste systems including: pumps, plumbing, faucets and showers for low voltage applications. The company and its products have built a reputation for quality, reliability and innovation backed up by excellent customer service.

### 1. SPECIFICATION

Product Code	WD1815	WD1825
Flow Rate (per min)	18 lts (4.8 US gals)	
Voltage	12 V d.c.	24 V d.c.
Recommended Fuse Size	12 amp automotive	8 amp automotive
Weight	2.9 kg (6.4 lbs)	
Inlet / Outlet Size	3/4" Male Thread	
Handset Connections	"Click fit" trigger handset Snap-in joint with flow lock / Dry link coupling	
Pressure Switch Settings	3 bar (45 psi)	
Semi Rigid Pipe Work System Connections	For Whale Quick connect 15mm use WX1542B	
Additional Fittings(included)	3/4" flexible hose adapters x 2 1/2" flexible hose adapters x 2	
Materials In Contact With Liquid	Glass filled Polypropylene, Santoprene, Nitrile, Stainless Steel	
Service Kits	AK1316 - Replacement head service kit AK1329 - Replacement Strainer / AK1317 - Micro Switch	
Minimum Wire Size	2.5mm <sup>2</sup> (16 AWG)	
Maximum Head	3m (98ft)	
Maximum Lift	3m (10ft)	

### 2. PRINCIPALS OF OPERATION

The Washdown kit uses the Whale saltwater pump to provide a high power cleaning solution for boats. The Saltwater pump provides smooth constant flow and is designed to run dry without damage. The pump is suitable for pumping both saltwater and freshwater and is self priming up to 3m (10 ft).

### 3. TO THE USER

Read the following carefully before use.


### 4. TO THE FITTER

Check that the product is suitable for the intended application, follow these installation instructions and ensure all relevant personnel read the points listed below. Also ensure that these operating instructions are passed on to the end user.

### 5. APPLICATION

The Whale® Washdown Kit is designed for installation in recreational marine vessels only for salt or freshwater use. Two versions are available that allow for operation with either 12 V d.c. or 24 V d.c. electrical supply **only**. If it is intended for use for any other purpose or with any other liquid, it is the user's responsibility to ensure that the pump is suitable for the intended use and, in particular, that the materials are fully compatible with the liquids to be used.

### 6. WARNINGS

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1. This pump **must not** be mounted below the water line when connected to an intake below the water line.
  2. Not suitable for pumping flammable liquids, diesel, chemicals etc.
  3. This pump is **not intended for damage control**.
  4. With all applications it is important that a system of safe working practice is applied to installation, use and maintenance. Ensure the water system is drained and electric supply is turned off before installation. In order to secure the unit, ensure that the mounting surface is a minimum thickness of 19mm (¾") (when fitted with the screws supplied).

5. **Do not** screw directly to the hull - must be mounted on a bulkhead or additional mounting board.
6. **WARNING:** Fire hazard. Wiring must comply with applicable electrical standards and include a properly sized fuse or circuit breaker. Improper wiring can cause a fire resulting in injury or death. Switch off the power while making connections. Suggested wiring information is given as a guide only. For full information, refer to the USCG, ABYC and ISO regulations for marine applications and wiring gauges, connectors and fuse protection.

## 7. PARTS LIST

Qty 1	Saltwater Washdown Pump	Qty 2	3/4" flexible hose adapters
Qty 1	Strainer	Qty 2	1/2" flexible hose adapters
Qty 1	Nozzle	Qty 2	3/4" BSP adapter

## 8. INSTALLATION

**WARNING:** Please note that incorrect installation may invalidate the warranty.

Preparation - Always disconnect power sources before installing.

### 8.1 Mounting Instructions

- a. Locate in a dry position with adequate ventilation, no more than 3 metres away from the tank. In normal use. **NOTE** ensure the pump cannot be submerged or sprayed by water.
- b. Pump can be mounted horizontally or vertically (we recommend that the pump head is below motor level).
- c. Feet positions are adjustable to allow replacement of other pump types. Use No. 8 stainless steel screws to fasten pump to solid surface ensuring the pump is securely supported.

### 8.2 Electrical Wiring

- a. Use specified fuse in the circuit, as indicated on motor label.
- b. Connect red wire to positive and black wire to negative - recommended wire size is 2.5mm (AWG 13).
- c. Fit an isolating switch with adequate current rating on the positive side of the supply.
- d. To prevent the pump running continuously turn off at isolating switch when vessel is left unattended or water supply has been allowed to empty.

## 9. PLUMBING



**NOTE:** Never use pipe sealant or sealing tapes on threaded adaptors, as these may enter the pump and cause failure.

**For Flexible Hose Systems:  
Use 3/4" Barbed Adapter**

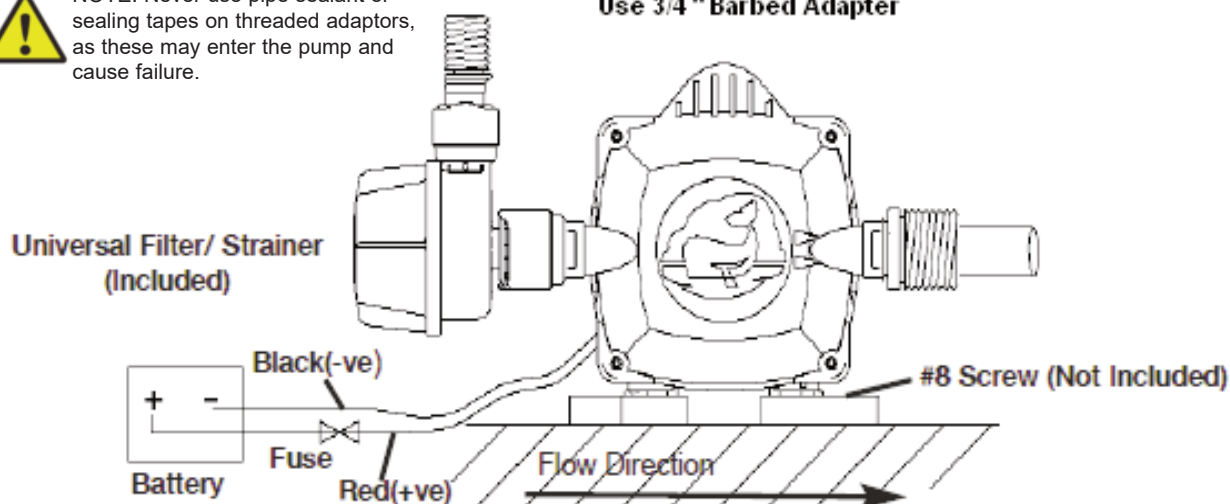


Fig 1 Pump fittings

Check pump flow direction (as indicated on pump body) and ensure that the strainer provided is attached to the pump head inlet.

## 10. INSTRUCTIONS FOR USE

Ensure that pump installation is thoroughly tested before first use. Once installed run the pump ensuring all air is removed from the system.

## 11. MAINTENANCE

This Whale® Washdown pump is designed to only require minimal maintenance.

**WARNING:** Before servicing pump, turn off pump and drain water from system, ensuring where relevant all seacocks are closed. Ensure that the pump is disconnected from electrics and plumbing during maintenance.

**Annual Checks** - Whale advise that the boat's plumbing system is checked annually for leaks and obstructions. Also a pump electrics check is advisable.

**Optimal Performance** - Ensure the strainer is clear of debris.

## 12. TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSES	POTENTIAL SOLUTION
Pump does not run	No power to pump	Check power supply Attach leads / clean connections
	Fuse has blown	Replace fuse
	Blockage in pipework	Check pipework for kinks
Pump runs but no water appears / Pump runs but will not switch off	No water getting to pump	Check the seacock is open/water tank is not empty Check strainer is not blocked Check all connections from tank/ seacock to inlet of pump are secure - any air leaks will prevent prime
	Water leaking at outlet side of pump	Check pipework/fittings for leaks and repair Check system drain plugs are closed
Pump cycles on and off excessively when tap/s are open	Excessive back pressure	Check pipework for kinks and filters etc. are clear Check shower rose/taps for blockage and repair
Pump cycles on and off periodically when all the taps are closed. (Normal with partially opened taps)	Water leaking at outlet side of pump	Check pipework/fittings for leaks and repair Check system drain plugs are closed
Noisy operation	Pump drawing air	See 'no water getting to pump' (above)
	Noise created by vibration	Check pump is secured to solid surface Check pump body is not in contact with hard surfaces. Locate away from interfering surfaces Check pipework is securely supported
Low flow	Bore of pipework connect too small	10mm minimum bore
	Power supply to pump	Check power supply to pump uses correct gauge wire (2.5mm <sup>2</sup> /13 AWG) to give full voltage at pump Check battery is not discharged
	Pipework/connections crushed due to over tightened jubilee clips	Replace damaged connections
	Pump too far from water tank/water source	Pump should be situated beside water tank/seacock
	Water leaking at outlet side of pump	Check pipework/fittings for leaks and repair Check system drain plugs are closed Turn off the isolator switch when not in use
	Pump strainer clogged	Remove clear lid, rinse and replace to main strainer body (retain strainer mesh for lid)

## 13. WINTERIZING

If water is allowed to freeze in the system, serious damage to the pipe work and pump may occur. To best avoid this damage, completely drain the water system.

1. Drain the tank either using the pump or a drain valve.
2. Open the trigger (including drain valve) and allow pump to purge the water from the system and turn pump off.
3. Disconnect the pump and turn on to purge into an adequate basin. Only reconnect the pump when the water system it is to be used.
4. Remember to leave trigger open to avoid any damage.

## 14. EU DECLARATION OF CONFORMITY, STANDARDS, APPROVALS

We hereby declare, under our sole responsibility, that the enclosed equipment complies with the provisions of the following EC Directives.

Electromagnetic Compatibility Directive 2014/30/EU on the approximation of the laws of the Member States relating to electromagnetic compatibility.

CE mark affixed: August 2017

Basis on which conformity is declared - The above equipment complies with the protection requirements of the EMC Directive.

Standards applied

2013/53/EU

2011/65/EU

ISO 10133:2012

EN55014-1:2006+A2:2011

EN55014-2:1997+A2:2008

EN28846 :1993

ABYC-H23

Recreational Craft Directive

ROHS II

Extra-low voltage DC Installation

EMC Emissions

EMC Immunity

Ignition Protection

Installation of Potable Water

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