

To the Fitter

Check that the product is suitable for the intended application, follow installation instructions and ensure operating instructions are passed on to the end user.

To the User

Read the following instructions carefully.

Application

The pressure switch can be used with 12/24V Whale submersible and in-line electric pumps.

The pressure switch is designed for simple freshwater pressure systems. Use for any other purpose or with any other liquid is not recommended and is entirely at the user's risk.

Installation

Choose a mounting position which allows for adjustment and maintenance of the switch.

- 1) Install switch on discharge side of the pump before any T pieces - this enables the opening of any tap in system to activate the switch
- 2) The switch can be screwed to a surface or suspended in the pipework
- 3) Use Whale 12mm Quick Connect plumbing fittings or flexible tubing with hoseclips
- 4) Connect microswitch terminals as per Fig 3
- 5) Always fit an isolator switch in the positive line

It is recommended that a strainer be fitted in-line to prevent foreign matter from entering the pressure switch.

Operation

The pressure switch detects the opening or closing of any tap in the system and switches the pump on or off accordingly.

To prime, if fitted with an in-line electric pump:

- 1) Cut off power supply at the isolator switch and open one cold tap fully
 - 2) EITHER
- Apply full strokes to the hand or foot pump (if fitted) until a good flow of water is obtained and all air is

expelled from the system

OR

Refill the storage tank to a level higher than that of the pump

- 3) Turn the power back on at the isolator switch and close the tap

To prime if fitted with a non-vented submersible pump:

1) Trapped air in the submersible will not allow the pump to prime. Air can be released by gently shaking the pump under water while the pump is in the water tank but is switched off.

- 2) If an external submersible pump is used, place the pump in the water before connecting to the side of the van. To adjust refer to additional sheet 'Adjusting the Pressure Switch' (Ref No 180.10)

NOTE: At normal flow rates the pump should operate continuously - but at low rates the pressure switch will cycle on and off to maintain back pressure in the pipework.

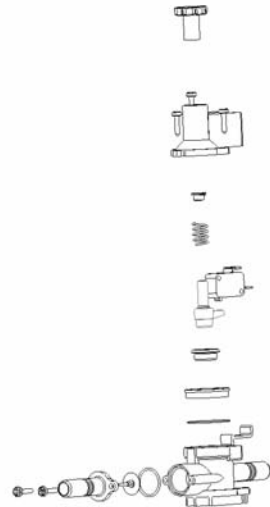


Fig 1

Maintenance

Regular inspection is recommended with maintenance and replacement of components as necessary. Replacement components are available from dealers (Kit Number AK7208)

Helpful Hints

a) If the pump will not run:

- Pump could be faulty or a wire disconnected
- Microswitch could be faulty.

Join together the two wires connected to the microswitch. If the pump operates now, the microswitch should be replaced using Whale spares kit AK7208

b) If the pump cycles on/off:

- Supply voltage may be high because battery charger is on. Adjust switch (see leaflet 180.10) and/or fit a surge damper
- Check for air or water leaks in taps and piping
- Non-return valve may be held open by grit. Remove the two assembly screws in the inlet nipple to gain access to the non-return valve

c) If pump motor runs steadily and will not stop:

- Supply voltage may be too low (at or below 11.0 Volts)
- Adjust switch (see leaflet 180.10) and/or recharge the battery
- Check all connections in the pipework
- If motor still runs, pump may be air locked. Turn off the isolator switch and re-prime the pump (see leaflet 180.10).

Warranty

This Whale product is covered by 1 years warranty.

Please see the enclosed document for details of our statement of limited warranty.

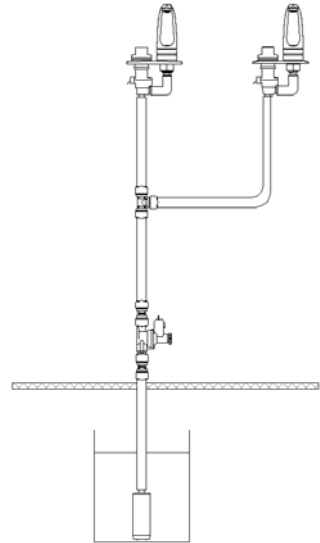


Fig 2



Fig 3

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