

## **S L 400 TOILET**

April 2008

The internal pump mechanism replaced by 2 external pumps & the "IN" seacock replaced with Blakes type bronze "plug" seacock.

The in and out sea cocks & pumps are fitted under flaps alongside .

**SEACOCKS** turn both on before using toilet - **IN** starboard / **OUT** port

**IN = ON - RED HANDLE pointing AFT**

**OFF - RED HANDLE as far FORWARD to RIGHT as possible**

**OUT = ON - RED HANDLE in line with pipe**

**OFF - RED HANDLE across pipes**

**FLUSHING** toilet -

**IN - sea water – STARBOARD / OUT – the business – PORT**

The In Pump wheezes as you pump – due to the anti-siphon hole.

After flushing out the contents of the bowl, refill with seawater and pump out – this will flush any remaining foul water out of the system.

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Do not put anything in the toilet which may choke the valves  
-use absorbent paper only.

Blockages & maintenance  
- see instructions in the Black maintenance Binder

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**MAINTENANCE** - "IN " Pump - PATAY SKIPPER SD60 pumps – refer to "exploded" diagram  
- "OUT" Pump – WHALE Mk5 Sanitation  
Simpson Lawrence S-L 400 Toilet installed march 98  
- This Toilet is no longer produced - so be careful with it !!

**OPERATING INSTRUCTIONS** – see above

### **ROUTINE MAINTENANCE**

1. Clean Bowl after each weekend - use Liquid Marine Disinfectant
2. Lime Scale inside the pump housing – periodically leave a " Sealand Tablet" in the bowl

**BLOCKAGES** -if there is a blockage and toilet will not pump out it is likely to be inside the port out pump alongside the bowl.

## SEA COCKS & PUMPS

Blakes **SEACOCKS**

**HEADS IN & GALLEY OUT** -

**see manual in black maint ring binder**

All seacocks should be regularly checked for the following details:

1. Attachment to hull (including fastenings).
2. Free movement of lever or wheel valves.
3. Connections to hoses

It is recommended that all seacocks be dismantled, inspected and re-greased with Blakes seacock grease:-

- a. Before commissioning.
- b. At least once during the season.

**c. at winter refit when Sea Scamp out of the water** To remove or adjust the barrel, first undo the lock nuts on the under side of the flange, and then remove the bolts which are tapped into the flange on the body of the seacock. Grease barrels with Blake seacock grease or White RAMNOL grease – both are waterproof.

### Note

When vessel is afloat, it is recommended that seacocks are turned off when leaving the boat, with the exception of cockpit drains and engine cooling water seacock. (More damage is caused by forgetting to turn on the water than by leaving the seacock open).

### HEADS OUT SEACOCK

HEADS OUT VALVE – remove – undo 2 large grey plastic rings – should be hand tight

Note which way valve fits.

Remove inner part – need wide angled pliers – =- reverse thread - carefully – inner ball unit will slide out

clean carefully – don't score the ball unit

Reassemble – reverse thread - not overtight – so Handle and ball moves

Refit to skin fitting and pipe – hand tight

### MAIN BILGE PUMP - Whale/Henderson Mk 5 Universal - 66 litres/minute

Bolted to the floors under the battery box, operating the pump is as easy as before and it does not intrude into the cabin. However removing it is a bit more complicated.

#### REMOVAL – remove batteries from battery box and disconnect wiring & lift off box

1. Undo bolts at front of pump wooden base plate – No 13 ring spanner (captive nuts)
2. Remove centre sole board
3. Lift pump & base board out – it is secured at the back between 2 horizontal struts
4. Carefully pulling the inlet pipe ( Starboard) out of bilges and the outlet pipe (port) through the bulkhead.
5. Service pump or clean strum box as necessary

#### RE-FITTING

1. Slide pump base board back into position – see blue marks on front floor
2. easing in and out pipes back into position – make sure excess part of port pipe is pushed into lazarette to make an anti- siphon bend,
3. Insert starboard bolt first and engage nut ( but do not tighten yet) – bolts should be lightly greased
4. Insert port bolt - tighten both bolts – no need to overtighten .
5. Replace sole board.
6. Replace Battery box and reconnect battery wiring

**COCKPIT BILGE PUMP** - Whale Gusher Urchin – 55 litres/ minute

**SALOON ELECTRIC BILGE PUMP** – Whale Supersub Smart 650 - 40 litres/minute