

SPXFLOW

INSTRUCTION MANUAL

Cartridge Bilge Pump

SUBMERSIBLE BILGE PUMP 500, 750, 1000, 1250 GPH

IB-103 R11 (06/2019)
52209JPI

ORIGINAL INSTRUCTIONS/TRANSLATION OF ORIGINAL INSTRUCTIONS
READ AND UNDERSTAND THIS MANUAL PRIOR TO OPERATING OR
SERVICING THIS PRODUCT



› Johnson Pump®

EN: Type Designation

EN: Pump type	V	500 GPH 12V	750 GPH 12V	1000 GPH 12V/24V	1250 GPH 12V/24V
EN: Part. No.	12V	32-1450-01	32-1550-01	32-1650-01	32-1750-01
	24V			32-1650-01-24	32-1750-01-24
EN: Part. No. US	12V	32503	32703	32903	42123
	24V			32903-24V	42123-23

EN:

Lowest level for suction

Measure "A"

500 – 8 mm/ 5/16"

750 – 8 mm/ 5/16"

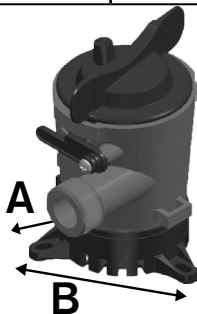
1000 – 8 mm/ 5/16"

1250 – 8 mm/ 5/16"

- Mount in the lowest point of the bilge
- For longer pump life, do not run dry



	500 GPH	750 GPH	1000 GPH	1250 GPH
1. Hose size	19 mm/ 3/4"	19 mm/ 3/4"	19 mm/ 3/4"	28 mm/1.1/8"
2. Capacity, straight (13.6V/27.2V)	40 l/min/ 630 GPH	50 l/min/ 800 GPH	63 l/min/ 1000 GPH	73 l/min/ 1150 GPH
3. Capacity, 0.9m head (13.6V/27.2V)	33 l/min/ 525 GPH	44 l/min/ 700 GPH	50 l/min/ 800 GPH	60 l/min/ 952 GPH
4. Voltage	12V	12V	12V 24V	12V 24V
5. Amperage	2.5 A	3 A	3.2 A 2 A	3 A 2 A
6. Fuse size	5 A	5 A	5 A 3 A	5 A 3 A
7. Height	112 mm/ 4.41"	112 mm/ 4.41"	112 mm/ 4.41"	112 mm/ 4.41"
8. Max dia	(A)80 mm/3,15" (B)88 mm/3,46"	(A)80 mm/3,15" (B)88 mm/3,46"	(A)80 mm/3,15" (B)88 mm/3,46"	(A)80 mm/3,15" (B)88 mm/3,46"
9. Weight	0,27 kg/ 9.6 oz.	0,27 kg/ 9.6 oz.	0,27 kg/ 9.6 oz.	0,32 kg/ 10.4 oz.
10. Wire	16GA /1.3 mm ²	16GA /1.3 mm ²	16GA /1.3 mm ²	16GA /1.3 mm ²



500 GPH	750 GPH	1000 GPH	1250 GPH
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EN	Body	Thermoplastic	Thermoplastic	Thermoplastic	Thermoplastic
	Shaft seal	Lip seal	Lip seal	Lip seal	Lip seal

Cartridge 500-1250 GPH

> English

INSTALLATION

Please follow the installation instructions carefully to assure maximum efficiency in your bilge pump operation.

1. Mount the pump in the lowest point of the bilge.
2. Select a point where the bilge water is to be pumped overboard as high as possible above the water line and at the shortest distance from the pump. Install a 19mm/ 3/4" thru-hull fitting (1250 – 28mm/ 1.1/8").
3. Fasten a 19mm/ 3/4" (1250 – 1.1/8") fuel resistant hose from the pump outlet to the thru-hull fitting. Avoid sharp bends or loops. Support the hose if necessary.

Note: In order to prevent air lock is important that the hose not be allowed to dip below the pump outlet. The hose should be constantly rising.

Electrical installation

1. Connect the brown wire to the positive (+) terminal of the battery.
2. Connect the black wire to the negative (-) terminal of the battery.

3. Do not cut back insulation more than necessary. Insulation or cable sheathings have to be removed in such a way that they end well above the highest bilge water level. The wire connections should be sealed with a marine sealant to prevent wire corrosion.

To remove or replace power cartridge

See page 17

1. Lift tab and rotate the two fins in a counter clockwise direction and lift out.
2. To reinstall, first make sure that the seal is properly located. Coat the seal with a light film of vegetable oil or mineral oil, then align the two cams on either side of the power cartridge with the two slots in the outer housing. Press down and twist in a clockwise rotation. To ensure that the power cartridge is properly located, twist fins in a counter clock-wise direction without lifting tab. Cartridge should stay in place.

> English

ACCESSORIES

Automatic Float Switch AS888

Part. no.:

34-888

US: 26014



The automatic switch AS888 protects electrically operated pumps and gives fully automatic operation. The AS888 is made of corrosion resistant materials.

3-Way Bilge Pump Control

Part. no. 12V:

34-1224

US: 82044

Part. no. 24V:

34-1225

US: 82044-24



The panel combined with automatic switch AS888 is an excellent installation for your boat.

Waste handling/material recycling

At the products end of life, please dispose of the product according to applicable law. Where applicable, please disassemble the product and recycle the parts material.

Installation of SPX FLOW Johnson Pump submersible bilge pump/automatic switch AS888/ Panel

See page 18

Always install switch AS888, panel and fuses between the positive (+) terminal of the battery and the positive (+) connection of the pump (brown wire). The negative (-) connection (black wire) of the pump to be connected directly to the negative (-) terminal of the battery. Fuse size applies to pump specification.

Electro-Magnetic Float Switch

Part. no. 12V:

34-1900B-12V

US: 36152

Part no. 24V:

34-1900B-24V

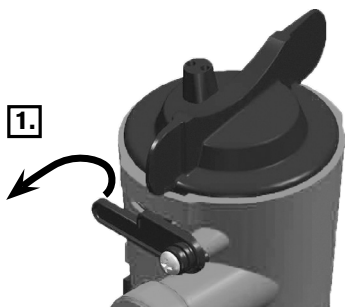
US: 36252



The electro-magnetic float switch is the same switch as on "Cartridge Combo". As a separate accessory it is possible to attach the switch to all pumps in the SPX FLOW Johnson Pump "Cartridge" & "Heavy Duty" series.

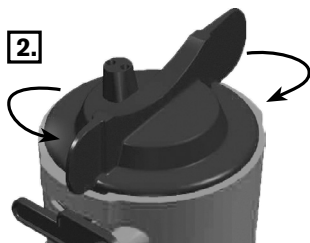
1.

EN: Lift tab



2.

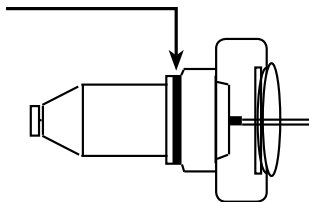
EN: Remove



3.

3.
EN: Reinstall

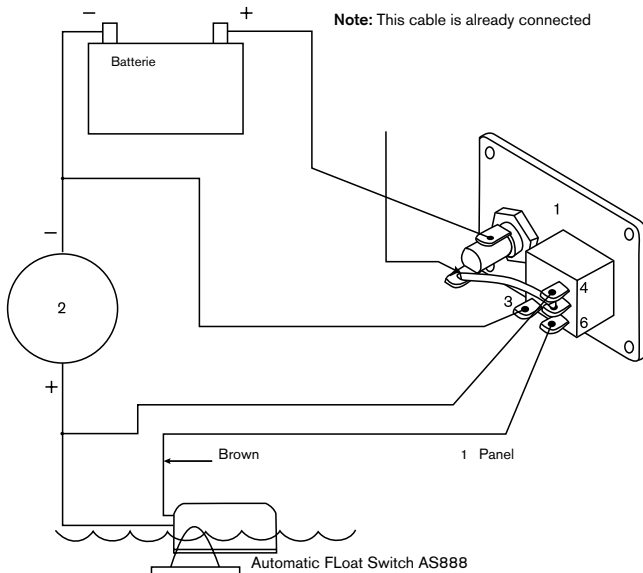
EN: Seal



2
Pompe de cale

(-) black pump lead

(+) brown pump lead



EN: Electrical installation without panel

(-) black pump lead

