SPX®

INSTRUCTION MANUAL

Submersible Bilge Pumps

CARTRIDGE L-SERIES L450, L550, L650, L750

IB-103 R05 (02/2012)

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

Johnson Pump®

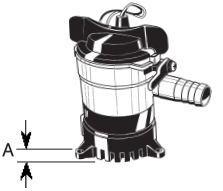
Type designation

Pump type (EU)	L450 – 12 V	L550 – 12 V	L650 – 12 V	L750 – 12 V
Art no	32-1450-01	32-1550-01	32-1650-01	32-1750-01
Pump type (USA)	500 GPH	750 GPH	1000 GPH	1250 GPH
Art no	32503	32703	32903	42123

Design features

(EU)	**L450**	**L550**	**L650**	**L750**
(USA)	**500**	**750**	**1000**	**1250**
Hose size	3/4"	3/4"	3/4"	1.1/8"
Capacity, straight (13.6 V)	40 l/min/630 GPH	50 l/min/800 GPH	63 l/min/1000 GPH	73 l/min/1150 GPH
Capacity, 1 m head (13.6 V)	33 l/min/525 GPH	44 l/min/700 GPH	50 l/min/800 GPH	60 l/min/952 GPH
Voltage	12 V DC	12 V DC	12 V DC	12 V DC
Amperage	2,5 A	3 A	3.2 A	3 A
Fuse size	5 A	5 A	5 A	5 A
Height	112 mm	112 mm	112 mm	112 mm
Max dia	70 mm	70 mm	70 mm	70 mm
Weight	0.27 kg	0.27 kg	0.27 kg	0.32 kg
Body	Thermoplastic	Thermoplastic	Thermoplastic	Thermoplastic
Shaft seal	Lip seal	Lip seal	Lip seal	Lip seal
Wire size	0.75 mm^2	0.75 mm^2	0.75 mm^2	0.75 mm^2

Lowest level for suction
Measure "A"
L450/500 – 8 mm
L550/750 – 8 mm
L650/1000 – 8 mm
L750/1250 – 8 mm



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

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 3/4" thru-hull fitting (L750/1250 – 1.1/8").
3. Fasten a 3/4" (L750/1250 – 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

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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 tins in a counter clock-wise direction without lifting tab. Cartridge should stay in place.

ACCESSORIES

Automatic Switch AS888
Part No. 34-888/26014
The automatic switch AS888 protects electrically operated pumps and gives fully automatic operation.
The AS888 is made of corrosion resistant materials.

Panel 12 or 24 V

Part No.
12 V –
34-1224/82044
24 V –
34-1225/82044-24
The panel combined with automatic switch AS888 is an excellent installation for your boat.

Installation SPX Johnson Pump submersible bilge pump/ automatic switch AS888/ Panel
See page 22
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.

Electronic Float Switch

Part No.
34-1900 B/36152 – 12 V
34-1900 B/36252 – 24 V
The electronic float switch is the same switch as on Cartridge Duo. As a separate accessory it is possible to attach the switch to all pumps in the SPX Johnson Pump L-serie.

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.