

Aqua Void Electro Combo Pumps



MODELS: 10-13637-01, 10-13637-02

FORM NO.: IB-530

REVISION: 06/03/2024

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Applicable standards

ISO 8846, ISO 8849, ISO 55014, ABYC-H22

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Designed by SPX FLOW Johnson Pump®
Assembled in Poland

RELIABILITY ON BOARD
-SINCE 1968-

Submersible Bilge Pump with electromagnetic Switch

Submersible bilge pump for pumping bilge water in marine environment. To be installed in the bilge.

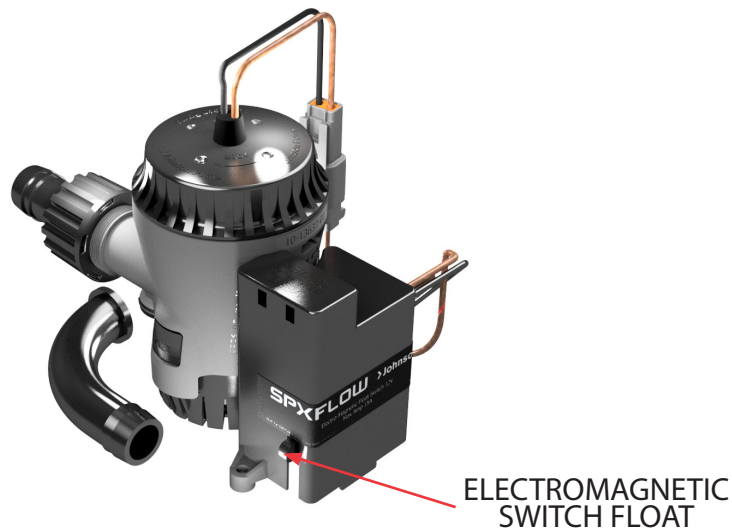
Security

- The pump may not be used for other liquid then water / bilge water,
- Always install the pump according to wiring diagram,
- Always use the fuse required,
- The wire connections must be sealed with a marine sealant,
- Insulation or cable sheathings must be placed above the highest bilge water level,
- Do not run dry

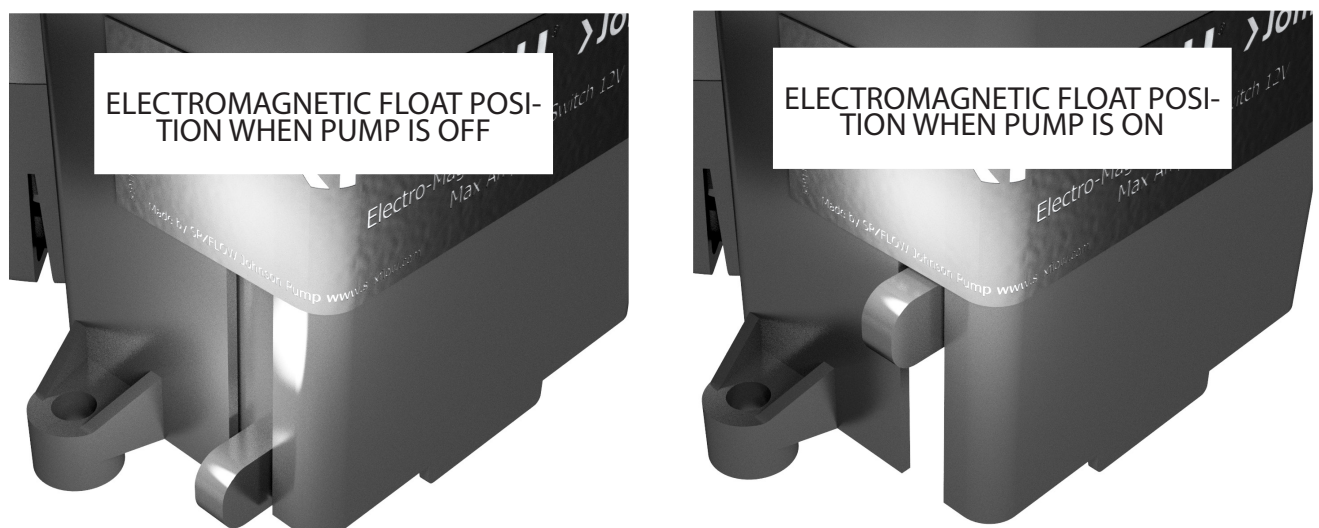
Operation

See illustration below:

1. When the bilge water rises and reaches the second float position the switch starts the pump.
2. When the water has sunk to a level at which float opens electrical circuit, the pump is stopped.

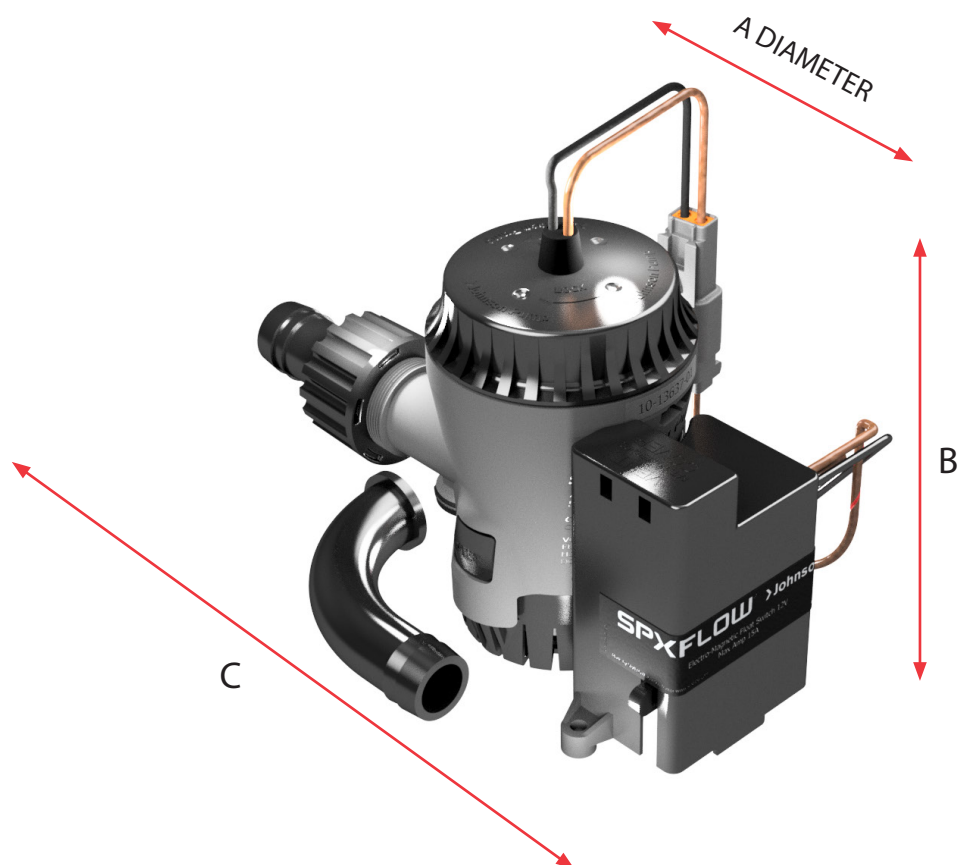


Aqua Void Ultima Combo - Pump operation



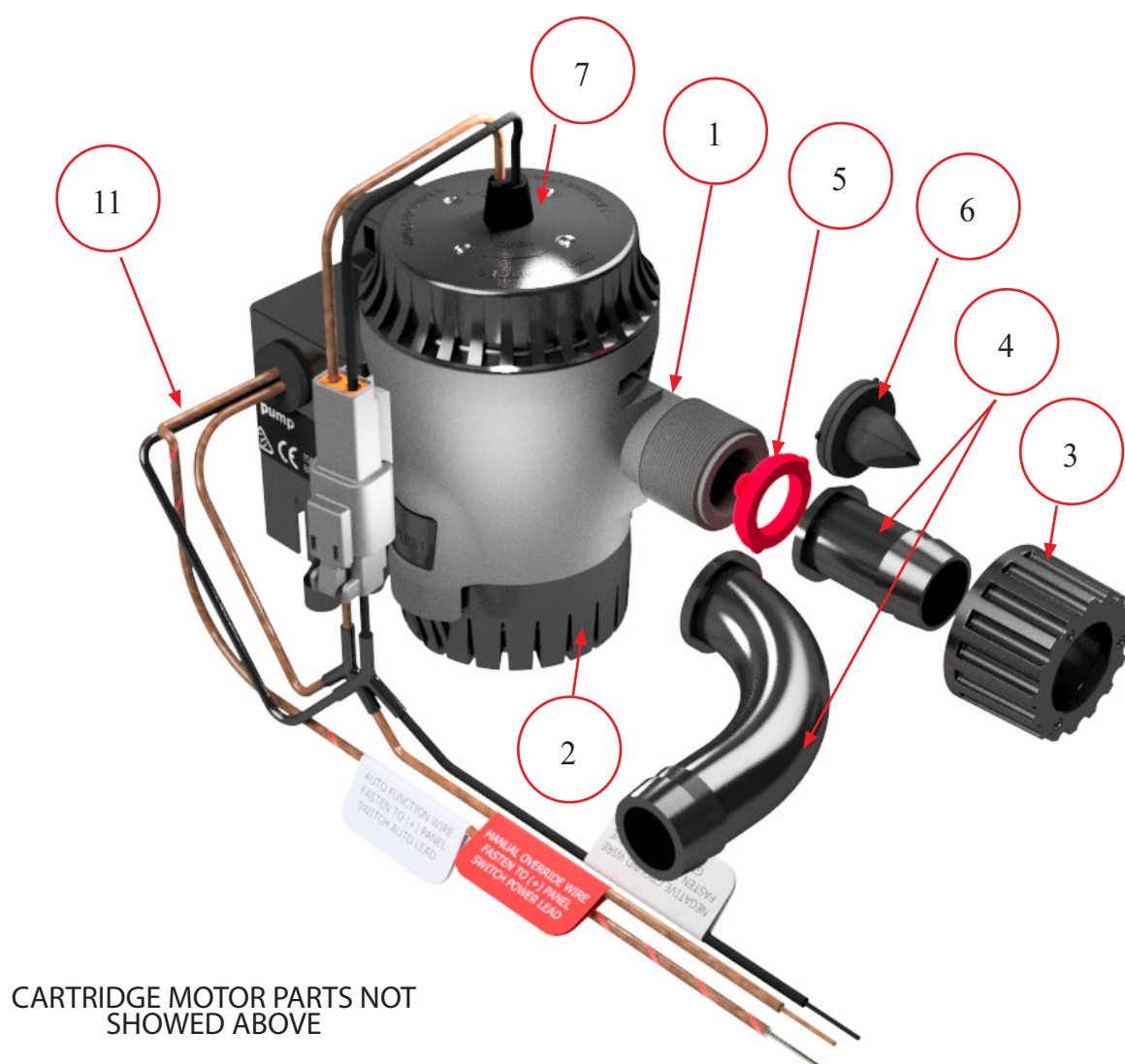
Aqua Void Electro Combo - Basic data

	500 GPH	800 GPH	DESCRIPTION
1	19 mm / 3/4"	19 mm / 3/4"	Hose size
2	ISO: 38 l/min, 600 GPH	ISO: 50 l/min, 795 GPH	Capacity, straight (12V, ISO8849)
	ABYC: 38 l/min, 600 GPH	ABYC: 50 l/min, 795 GPH	Capacity straight (ABYC H-22)
3	ISO: 26 l/min, 410 GPH	ISO: 35 l/min, 560 GPH	Capacity, 1m head (12V, ISO 8849)
	ABYC: 23 l/min, 365 GPH	ABYC: 32 l/min, 510 GPH	Capacity, 1m head (ABYC H-22)
4	ISO 16 l/min, 250 GPH	ISO 26 l/min, 405 GPH	Capacity, 2m head (12V, ISO 8849)
	ABYC: 14 l/min, 225 GPH	ABYC: 24 l/min, 375 GPH	Capacity, 2m head (ABYC H-22)
5	3,0 m / 9,9 ft	4,4 m / 14,5 ft	Capacity, MAX head (12V, ISO 8849, ABYC H-22)
6	12V	12V	Voltage
7	2,7 A	3,7 A	Amperage
8	3,5 A	5,0 A	Fuse size
9	(B) 119 mm, 4,69 mm	(B) 119 mm, 4,69 mm	Height
10	(A) 69,8 mm, 2,75"	(A) 69,8 mm, 2,75"	Max. diameter
	(C) 165 mm, 6,49"	(C) 165 mm, 6,49"	
11	0,49 kg / 17,3 oz	0,53 kg / 18,7 oz	Weight
12	16GA / 1,3 mm ²	16GA / 1,3 mm ²	Wire cross section area



Aqua Void Electro Combo - Materials

	ITEM	MATERIAL
1	Pump Housing	ABS
2	Filter Basket	ABS
3	Dura-Port Nut	PA66/GF - Nylon
4	Dura-Port Sleeves	PA66/GF - Nylon
5	Gasket	Nitrile Rubber
6	Check Valve	Nitrile Rubber
7	Motor Cartridge	PC-ABS
8	Motor Shaft	316 Stainless Steel
9	Shaft (Lip) Seal	Nitrile Rubber
10	O-Ring	Nitrile Rubber
11	Cable	Tinned Anticapillary Wire



Aqua Void Electro Combo - Installation instructions

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 by securing it with screws mounted in appropriate holes in basket and electromagnetic switch,
2. Select a discharge 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,
3. Fasten a 19mm/3/4" internal diameter fuel resistant hose from the pump outlet to the thru-hull discharge fitting. Avoid any sharp

Electrical installation

See electrical diagram on page 9. Any type of marine peripherals can be used, but wiring order needs to be followed strictly in order to make product work properly.

For motor cartridge installation see page 7.

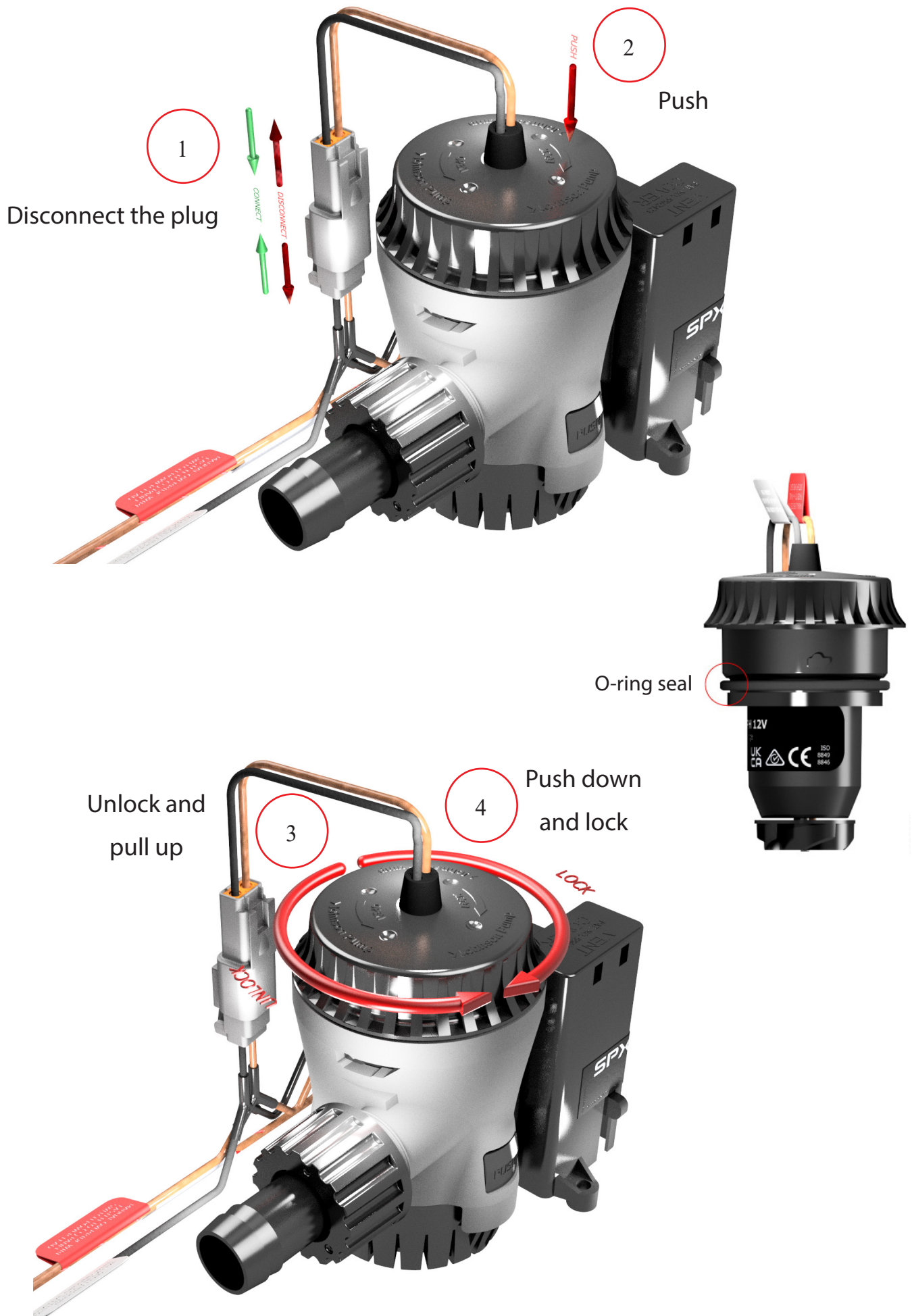
1. Disconnect male and female plug part from each other,
2. Push down and rotate the top cover in a counter clockwise direction and lift out.
3. To reinstall, first make sure that the o-ring seal is properly located. Coat the o-ring seal with Food Grade Synthetic Grease (NSF H1), then align the two cams on either side of the motor cartridge with the two slots in the outer housing.
4. Press down firmly and twist in a clockwise rotation until the lock-notch clicks securely

To remove or replace filter basket follow instructions from page 8.

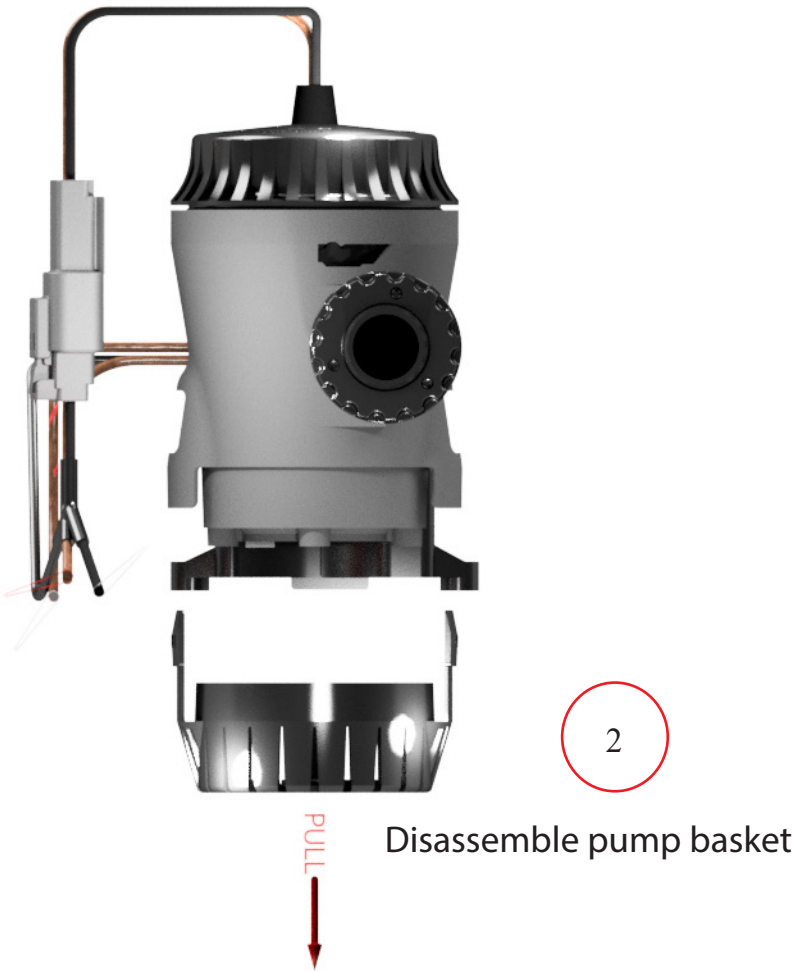
1. Push both retention tabs inward.
2. Pull pump housing and filter basket apart while retention tabs are depressed.

INFORMATION: Bilge pump is equipped with anti-air lock feature.

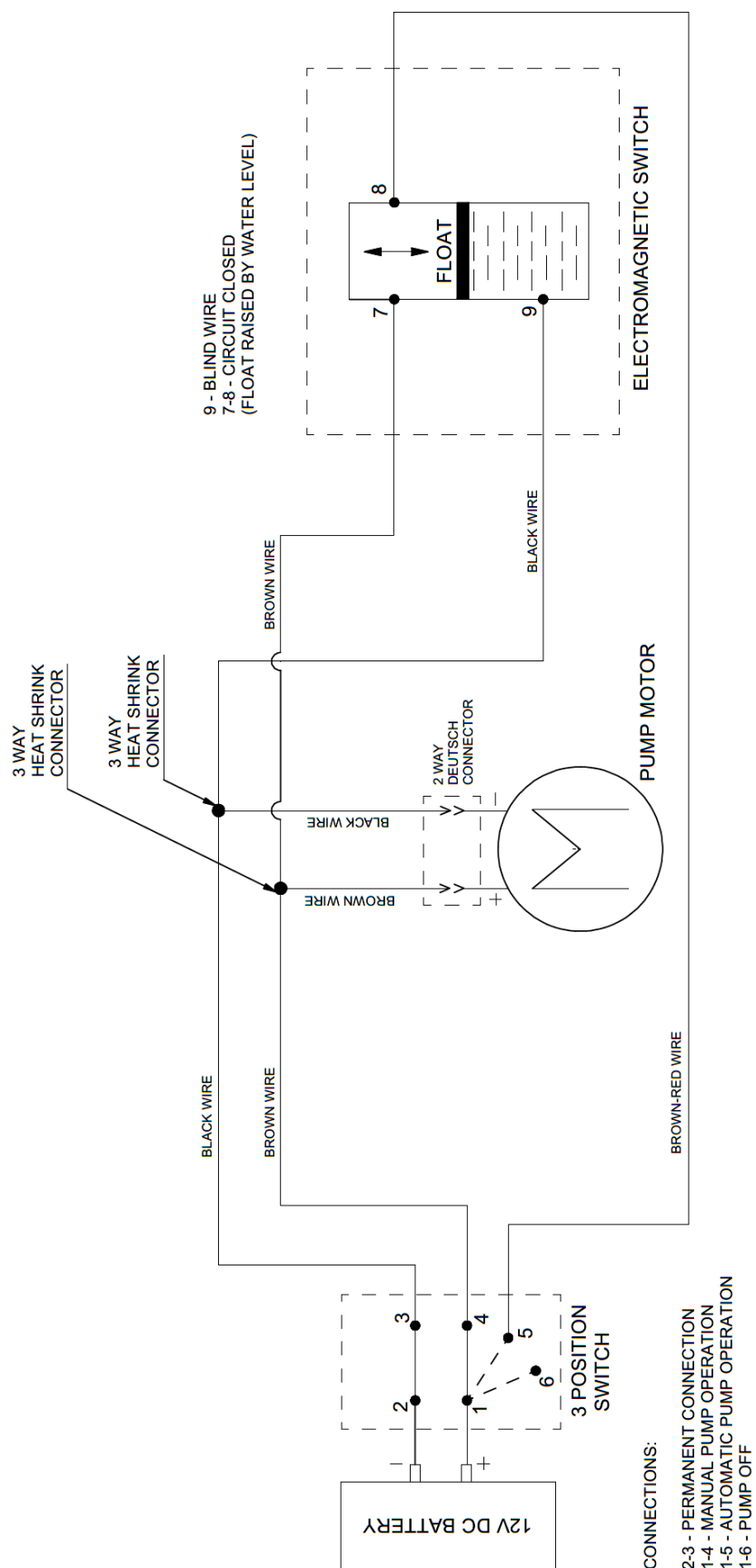
Aqua Void Electro Combo - Cartridge motor replacement



Aqua Void Electro Combo - Pump installation



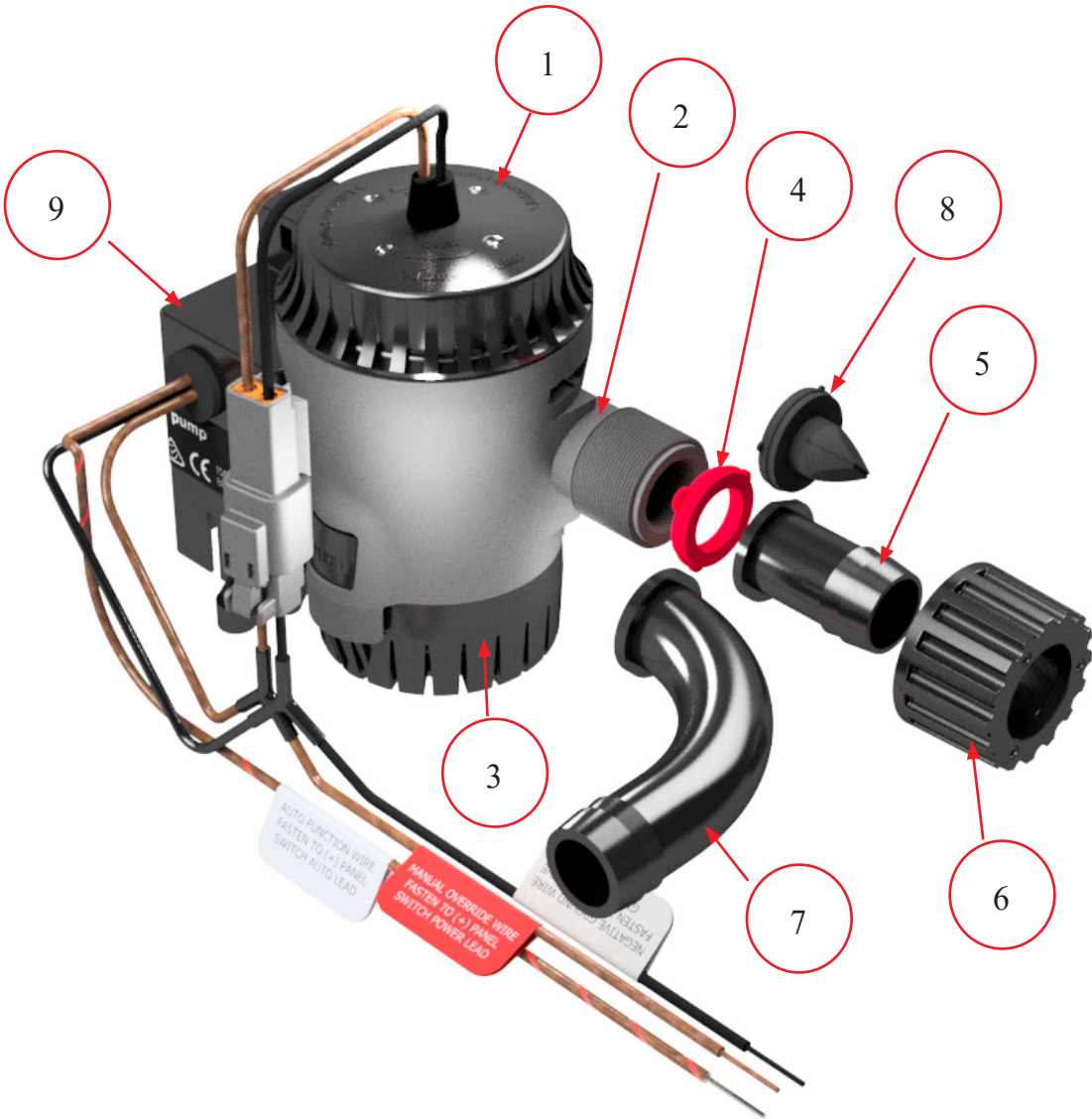
Aqua Void Electro Combo - Pump electrical installation



CONNECTIONS:

- 2-3 - PERMANENT CONNECTION
- 1-4 - MANUAL PUMP OPERATION
- 1-5 - AUTOMATIC PUMP OPERATION
- 1-6 - PUMP OFF

Aqua Void Electro Combo - Assembly breakdown



ITEM	QUANTITY	DESCRIPTION
1	1	PUMP CARTRIDGE MOTOR
2	1	PUMP HOUSING LF
3	1	BILGE PUMP BASKET
4	1	SMALL DURAPORT GASKET
5	1	DURAPORT SLEEVE SMALL
6	1	DURAPORT NUT SMALL
7	1	SMALL DURAPORT SLEEVE - 90 DEG.
8	1	CHECK VALVE
9	1	ELECTROMAGNETIC SWITCH

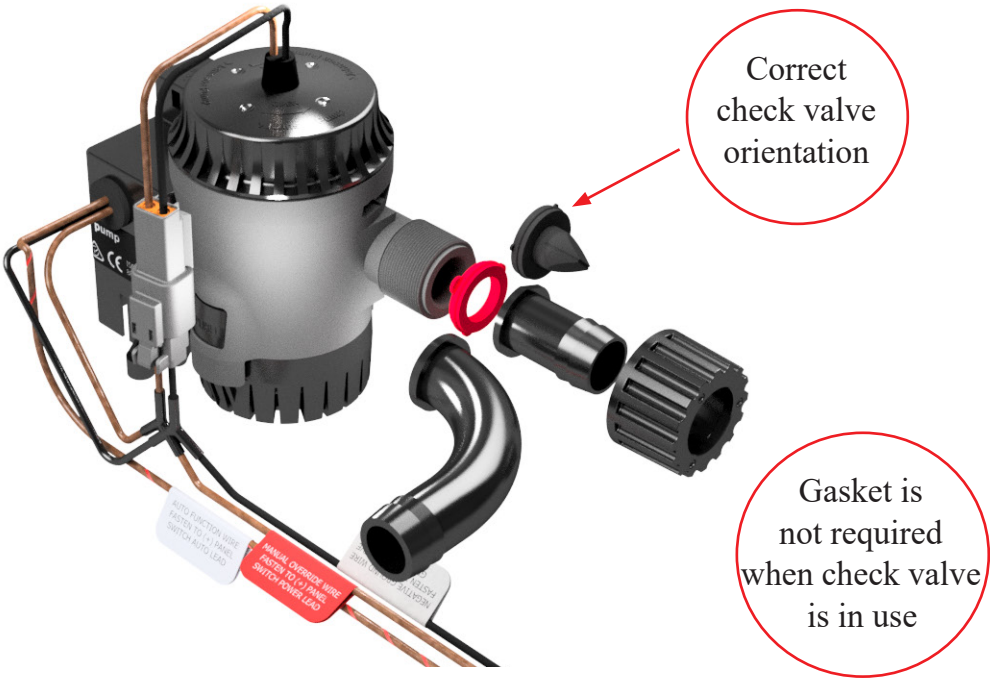
Aqua Void Ultima Combo - Accessories

CHECK VALVE

The check valve is used to reduce repetitive pump on/off cycling by preventing back-flow of water from returning to the bilge. When the check valve is installed, the gasket is not required. The check valve is installed between the pump housing and duraport nut/sleeve. The protruding shape of the valve can be inserted into the duraport sleeve in the direction of water flow, which is then fastened to the pump using the duraport nut. The flat face of the valve will seal against the face of the pump threaded region when fastened together.

NOTE

Installation of the check valve can reduce performance of the pump up to 30% as it creates additional flow restriction.



ACCESSORIES

It is possible to order accessories for bilge pump. Mentioned accessories extend functions and add new possibilities for the pump. Good example of an accessory is a check valve described earlier. All available accessories sets are presented in table below:

PRODUCT	CONTAINS	PART NUMBER.
Straight Dura Port Assembly	6 + 5 + 4	09-36422
90 Degree Dura Port Assembly	6 + 7 + 4	09-36423
Check Valve	8	09-36426



Straight Dura Port Assembly



90 Degree Dura Port Assembly



Check Valve

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INSTRUCTION
MANUALS



DOWNLOADS



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Models: 10-13637-01, 10-13637-02

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