

INSTALLATION INSTRUCTIONS

SERVICE KIT - REED SWITCH REPLACEMENT KIT. Part No. 19071

- KFL, PHD TS FL, K7-2 Boostamatic, PH TS FL, PH ES FL, PH ES B, CH FL, CH B, Jet B
- Monsoon Standard & Universal Single & Twin Pumps

● KIT CONTENTS

ITEM	QTY	ITEM	QTY
1 Reed Switch	1	4■ Strain Relief Bush	1
2 Tie Wrap	1	5♦ Screw, Self Tapping K40 × 16 mm	4
3* Screw Self Tapping 3.5 × 12	4	* KFL, K7-2 B, PHD TS FL, PH TS FL, PH ES B	
		■ PH TS FL, PH ES FL, PH ES B	
		♦ CH FL, CH B, Jet B	

● WIRING DIAGRAMS

Fig. Pump

1	KFL9-2, KFL12-2, Monsoon Standard Single
2	PHD 35 TS FL, PHD 45 TS FL, Monsoon Standard Twin
3	K7-2 Boostamatic, Monsoon Universal Single
4	Monsoon Universal Twin
5	PH 35 TS FL, PH 45 TS FL, PH 35 ES FL, PH 45 ES FL
6	PH 35 ES B, PH 45 ES B
7	CH 4-30 FL, CH 4-40 FL, CH 4-50 FL, CH 4-60 FL
8	CH 4-30 B, CH 4-40 B, CH 4-50 B, CH 4-60 B, Jet 55-45 B, Jet 80-45 B

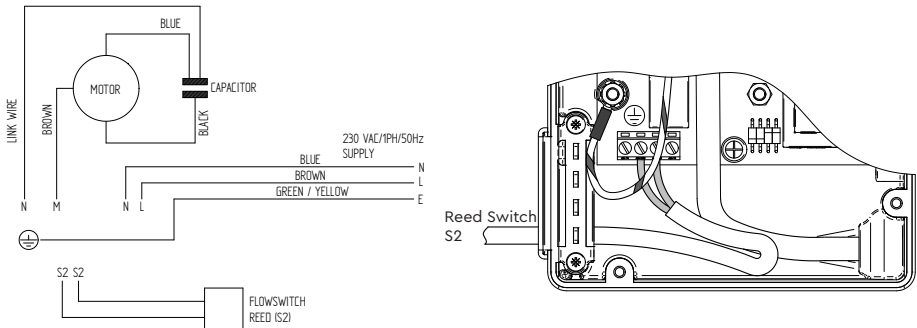
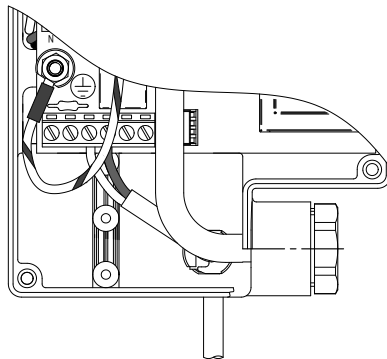
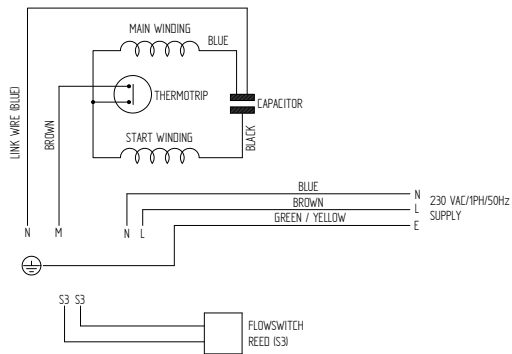


Fig. 1



Reed Switch S3

Fig. 5

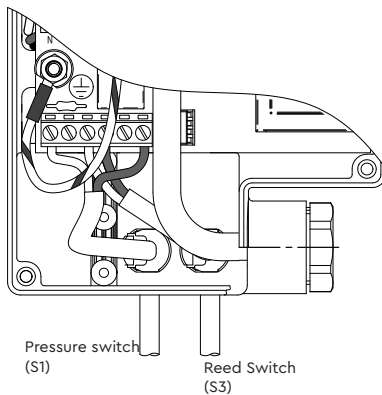
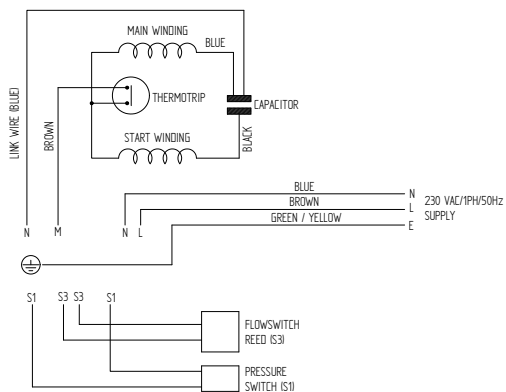


Fig. 6

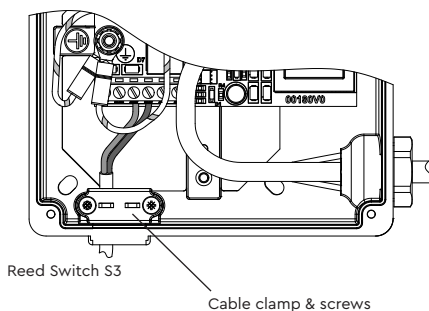
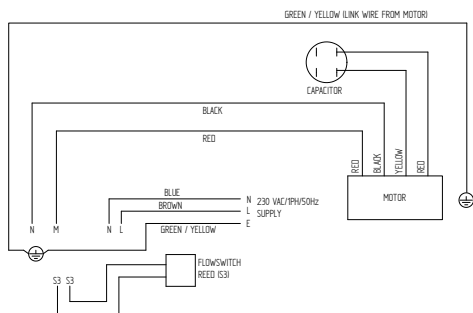


Fig. 7

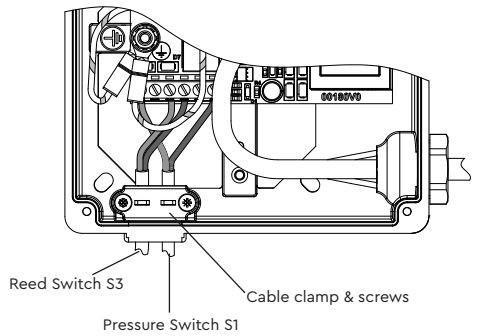
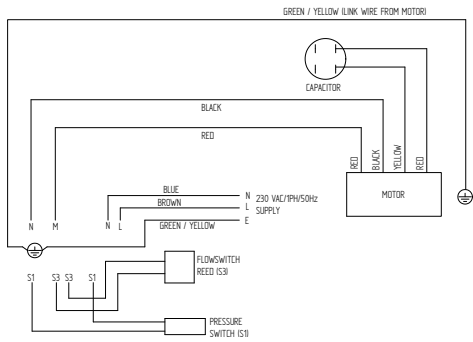


Fig. 8

- KFL9-2, KFL12-2, PHD 35 TS FL, PHD 45 TS FL, K7-2 BOOSTAMATIC, MONSOON
- DISASSEMBLY



- Isolate electrical supply before fitting replacement part.
- Replacing the reed switch components should only be carried out by a competent person.
- The supply cord and internal wiring within the terminal box are routed and secured to ensure compliance with the electrical standard EN 60335-1. It is essential that prior to any disturbance of this internal wiring, all cable routing and securing details are carefully noted to ensure reassembly to the same factory pattern is always maintained.

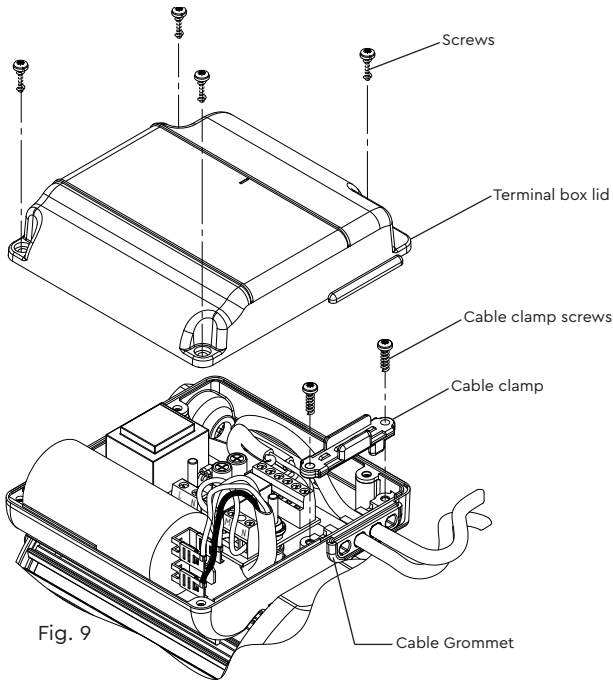


Fig. 9

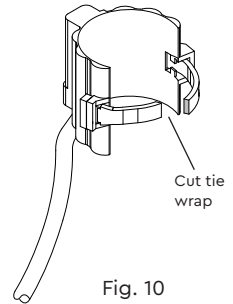


Fig. 10

- Remove four screws and carefully remove terminal box lid (Fig. 9).
- Note the cable routing within the terminal box (Figs. 1, 2, 3 or 4).
- Identify, disconnect and remove the reed switch wiring from the terminal block (Figs. 1, 2, 3 or 4).
- **IMPORTANT** – take note of the cable clamp orientation before removal, as reassembly in the original factory orientation is essential. Remove two screws and cable clamp, this allows any reed or pressure switch cables to be removed from the terminal box (Fig. 9).
- Remove the reed switch cable from the terminal box by gently sliding the cable out through the grommet, ensuring no damage to the grommet sealing area (Figs. 1, 2, 3 or 4).
- Remove the existing reed switch by cutting the securing tie wrap and pulling away from the body Fig. 10.



Damaged components must be replaced. Contact Stuart Turner for advice on replacements not supplied with kit.

- **REASSEMBLY**

Reassembly is the reverse of the disassembly instructions with the new replacement parts fitted as required.

Secure cable clamp screws and terminal box lid, to a torque of 0.8 Nm.

Note: For correct operation of the flow switch, the reed must be secured to the body as detailed below.

Firstly feed the tie wrap through the retainer on the reed switch, ensuring that the tie wrap serrations are facing outward (Fig 11).

Now locate the reed switch within the body groove as highlighted X-X (Fig. 12), and feed the tie wrap through the second catch.

The tie wrap can now be pulled tight to secure the reed and the excess cut to length (Fig. 13).

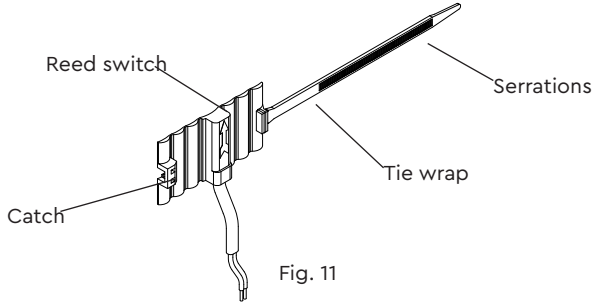


Fig. 11

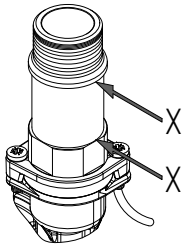


Fig. 12

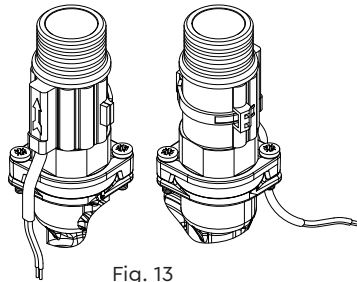


Fig. 13

Now see section: Initial Operating Instructions

- PH 35 TS FL, PH 45 TS FL, PH 35 ES FL, PH 45 ES FL, PH 35 ES B, PH 45 ES B
- **DISASSEMBLY**



- Isolate electrical supply before fitting replacement part.
- Replacing the reed switch components should only be carried out by a competent person.
- The supply cord and internal wiring within the terminal box are routed and secured to ensure compliance with the electrical standard EN 60335-1. It is essential that prior to any disturbance of this internal wiring, all cable routing and securing details are carefully noted to ensure reassembly to the same factory pattern is always maintained.

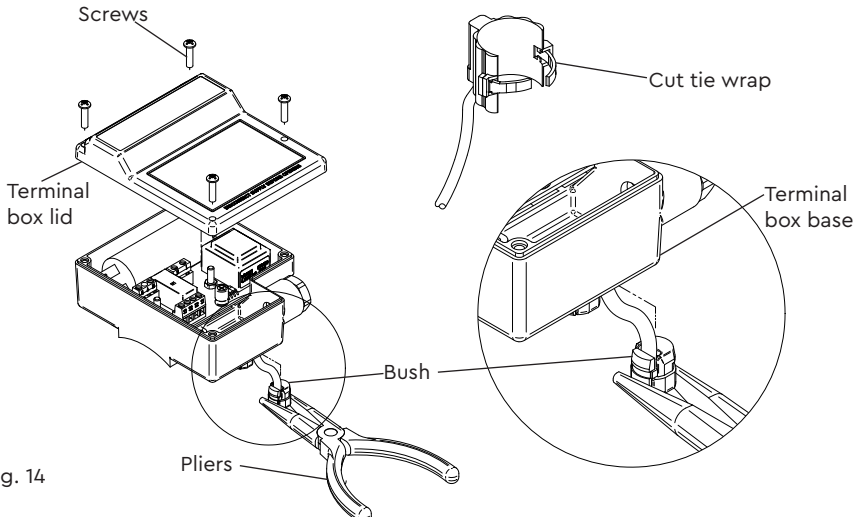


Fig. 14

- Remove four screws and carefully remove terminal box lid (Fig. 14).
- Note the cable routing within the terminal box (Figs. 5 & 6).
- Slacken the two screws retaining the reed switch wires on the PCB.
- Remove the strain relief bush and reed switch cable by gripping with pliers (Fig. 14) and pulling downwards from the terminal box.
- Remove the existing reed switch by cutting the securing tie wrap and pulling away from the flow switch body (Fig. 14)



Damaged components must be replaced. Contact Stuart Turner for advice on replacements not supplied with kit.

● **PUMP REASSEMBLY**

- Fit the new strain relief bush around the reed switch cable and squeeze the strain relief bush with pliers to compress the cable.
- Push the cable and bush into the base of the terminal box ensuring the bush is fully seated into its location.
- Connect the two reed switch wires to the PCB (Figs. 5, & 6)
- For correct operation of the flow switch, the reed must be secured to the body (Fig. 16)
- Firstly feed the tie wrap (item 2) through the retainer on the reed switch, ensuring that the tie wrap serrations are facing outwards (Fig. 15).

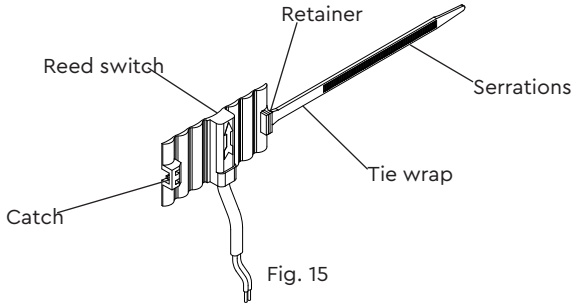


Fig. 15

- Locate the reed switch within the body groove as highlighted X-X (Fig. 16), and feed the tie wrap through the second catch.
- The tie wrap can now be pulled tight to secure the reed and excess cut to length as shown (Fig. 17)

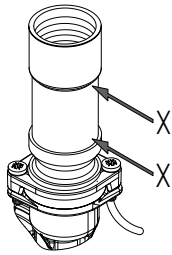


Fig. 16

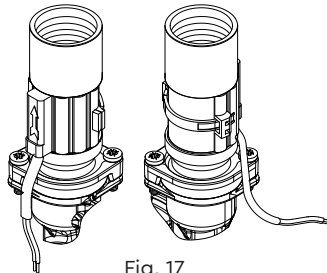


Fig. 17

Now see section: Initial Operating Instructions

- CH 4-30 FL, CH 4-40 FL, CH 4-50 FL, CH 4-60 FL, CH 4-30 B, CH 4-40 B, CH 4-50 B, CH 4-60 B, JET 55-45 B, JET 80-45 B
- DISASSEMBLY



- Isolate electrical supply before fitting replacement part.
- Replacing the reed switch components should only be carried out by a competent person.
- The supply cord and internal wiring within the terminal box are routed and secured to ensure compliance with the electrical standard EN 60335-1. It is essential that prior to any disturbance of this internal wiring, all cable routing and securing details are carefully noted to ensure reassembly to the same factory pattern is always maintained.

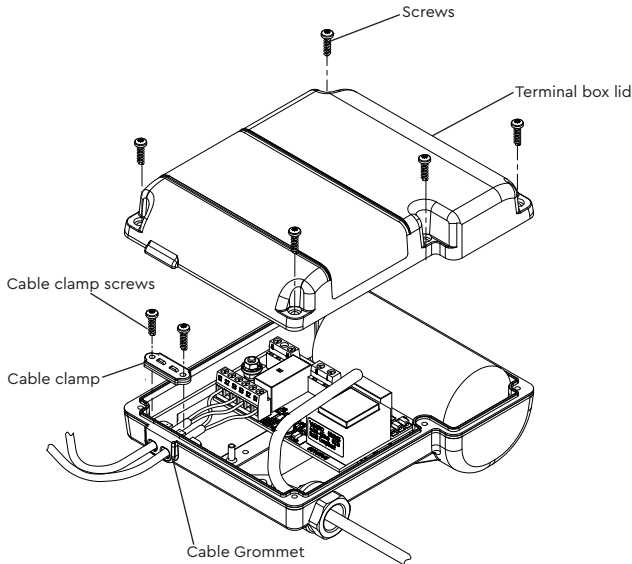


Fig. 18

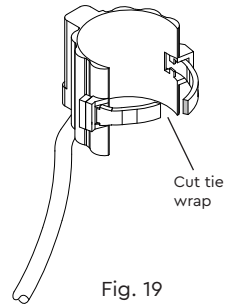


Fig. 19

- Remove four (or five) screws and carefully remove terminal box lid (Fig. 18).
- Note the cable routing within the terminal box (Figs. 7, or 8).
- Identify, disconnect and remove the reed switch wiring from the terminal block (Figs. 7, or 8).
- **IMPORTANT** – take note of the cable clamp orientation before removal, as reassembly in the original factory orientation is essential. Remove two screws and cable clamp, this allows any reed or pressure switch cables to be removed from the terminal box (Fig. 18).
- Remove the reed switch cable from the terminal box by gently sliding the cable out through the gasket, ensuring no damage to the gasket sealing area (Figs. 7, or 8).
- Remove the existing reed switch by cutting the securing tie wrap and pulling away from the body Fig. 19.



Damaged components must be replaced. Contact Stuart Turner for advice on replacements not supplied with kit.

- **REASSEMBLY**

Reassembly is the reverse of the disassembly instructions with the new replacement parts fitted as required.

Secure cable clamp screws and terminal box lid, to a torque of 0.8 Nm.

Note: For correct operation of the flow switch, the reed must be secured to the body as detailed below.

Firstly feed the tie wrap through the retainer on the reed switch, ensuring that the tie wrap serrations are facing outward (Fig 20).

Now locate the reed switch within the body groove as highlighted X-X (Fig. 21), and feed the tie wrap through the second catch.

The tie wrap can now be pulled tight to secure the reed and the excess cut to length (Fig. 22).

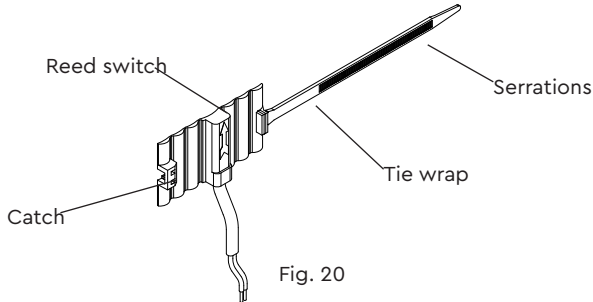


Fig. 20

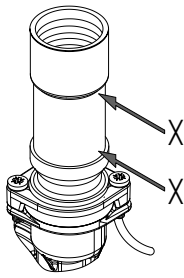


Fig. 21

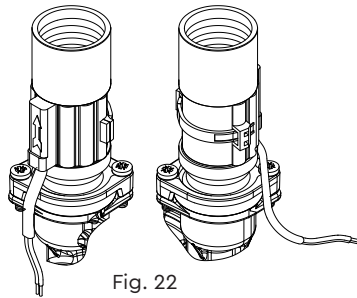


Fig. 22

- **ALL MODELS: INITIAL OPERATING INSTRUCTIONS**

- Consult instruction manual for commissioning instructions.
- Do not run pump dry. Allow the water to be pumped to enter the pump body thus ensuring the seal is lubricated before switching the pump on. Failure to do this will damage the seal.
- Carefully check pump and pipework for leaks whilst pump running and stationary before leaving the installation unattended.

Stuart Turner reserves the right to amend specifications without notice.



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