

INVACARE Softform Active 2 Rx Powered Hybrid Support Surface Owner's Manual

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Softform Active 2 Rx Powered Hybrid Support Surface Owner's Manual



PROVIDER: Keep this manual.

The procedures in this manual **MUST** be performed by a qualified technician.

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General

Introduction

This document contains important information about assembly, adjustment, and advanced maintenance of the product. To ensure safety when handling the product, read this document and the user manual carefully and follow the safety instructions.

Find the user manual on Invacare's website or contact your Invacare representative. See addresses at the end of this document.

Invacare reserves the right to alter product specifications without further notice.

Before reading this document, make sure you have the latest version.

You find the latest version as a PDF on the Invacare website.

For pre-sale and user information, see the user manual.

For more information about the product, for example, product safety notices and product recalls, contact your Invacare representative.

See addresses at the end of this document.

Symbols in this Document

Symbols and signal words are used in this document and apply to hazards or unsafe practices which could result in personal injury or property damage. See the information below for definitions of the signal words.



WARNING!

Indicates a hazardous situation that could result in serious injury or death if it is not avoided.



CAUTION!

Indicates a hazardous situation that could result in minor or slight injury if it is not avoided.



•IMPORTANT!

Indicates a hazardous situation that could result in damage to property if it is not avoided.



Tips and Recommendations

Gives useful tips, recommendations, and information for efficient, trouble-free use.

Safety

General Safety Information



WARNING!

Risk of injury or damage to property

- The procedures in this manual must only be performed by a qualified technician.
- Use only original accessories and spare parts.
- Do not handle this product or any available optional equipment without first completely reading and understanding these instructions and any additional instructional material such as user manuals, installation manuals, or instruction sheets supplied with this product or optional equipment.
- After each assembly, check that all fittings are properly tightened and that all parts have the correct function.



WARNING!

Risk of contamination

- Clean and disinfect the product before servicing.



•IMPORTANT!

Assembly of accessories might not be described in this service manual.
Refer to the manual, delivered with the accessory.

- Additional manuals are available on request.
See addresses at the end of this document.



•IMPORTANT!

Replacement parts – for this product family


- are only available as a kit. Always use the complete new kit when replacing a part.
- Spare parts kits can be ordered from Invacare.
Refer to your local Invacare website to access the electronic spare parts catalog (ESPC).



•IMPORTANT!

Refer to the user manual of this product for information on:

- Technical data
- Product components
- Labels
- Additional safety instructions
- Cleaning and disinfection instructions

 The information contained in this document is subject to change without notice.

Personal Safety Information

These safety instructions are intended to help avoid accidents during work and must be observed under all circumstances.

All employees coming into contact with contaminated products must regularly consult a company doctor. Work clothing and personal protective equipment must be available in necessary quantities and be in proper condition. Reliable hand and surface disinfection must be ensured.

WARNING!

Risk of contamination

- Clean and disinfect the product before carrying out repairs.

Electrical Safety Check

!IMPORTANT!

Regular electrical checks according to EN 62353 (VDE0751) must be carried out in line with national requirements.

Inspect all electronic components for damage to the casing or cable, test functions, and check for stray current.

Digital Control Unit

Components' Overview



Fig. 3-1

A User's interface

J	Power switch connector	M	Compressor connector
K	Microswitch connector	N	Motor connector
L	6-pin user's interface connector	O	Fuses connector

Service | Digital Control Unit

Replacing the Front Housing

Refers to spare parts kit SP1633237

! Risk of damaging the PCB by electrostatic discharge
Handle PCBs only in Electrostatic Protected Areas



PH1 Phillips key 14 mm Open-ended wrench

1. Switch off the control unit and disconnect from the main supply.
2. Turn the unit upside down.
3. Loosen and remove the four screws A.



Fig. 4-1

4. Remove the bottom housing.
5. Loosen and remove the two screws B fixing the motor to the front housing.

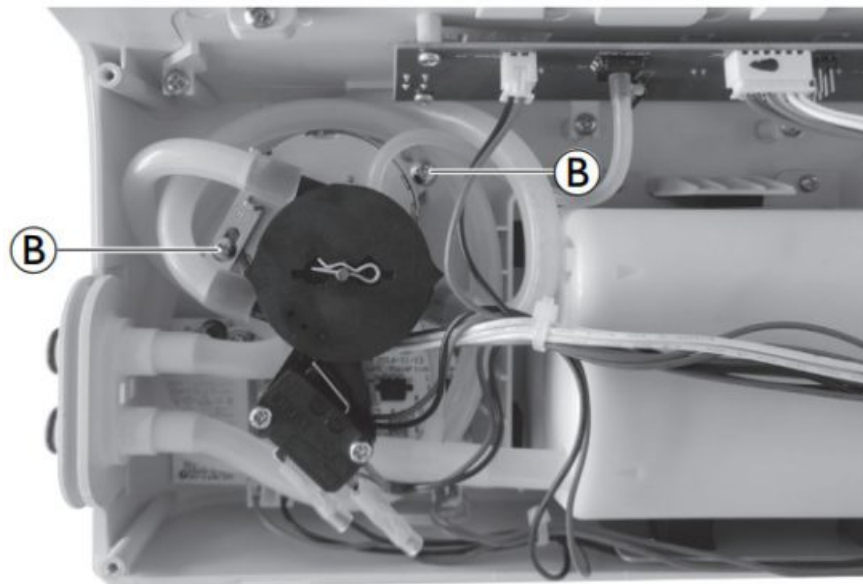


Fig. 4-2

6. Loosen and remove the three screws C fixing the compressor to the front housing.

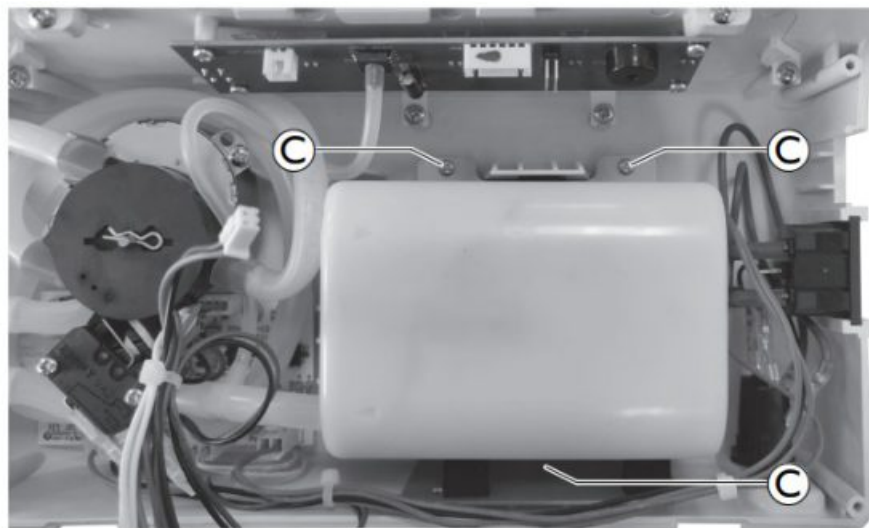


Fig. 4-3

7. Loosen and remove the four screws D fixing the PCB to the front housing.

8. Unplug all wires.

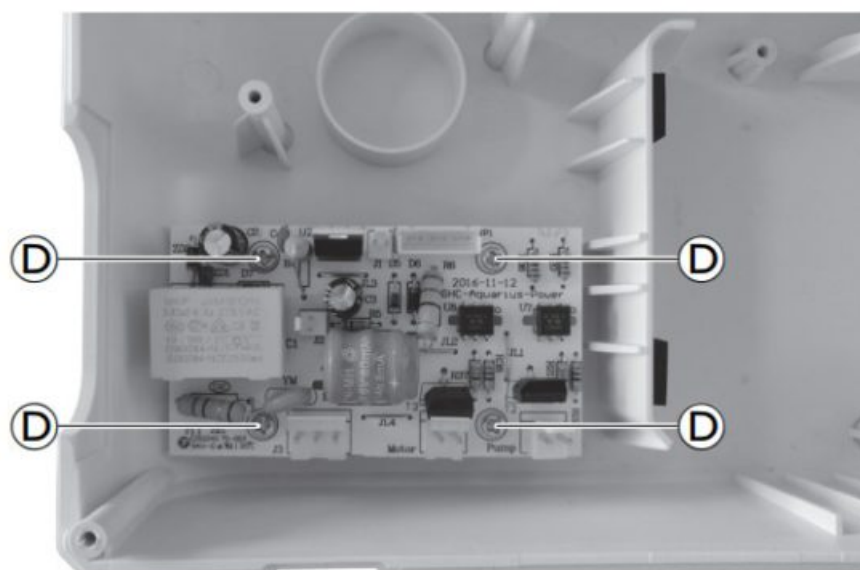


Fig. 4-4

9. Unplug the four wires – brown E, black F, red G, and blue H – connected to the fuse holders I, located on the

front housing's bottom right side.

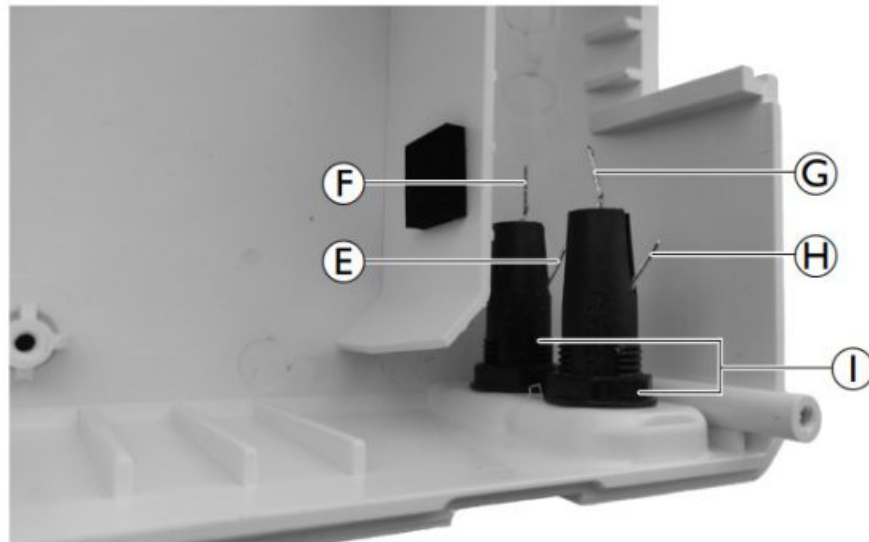


Fig. 4-5

! Risk of malfunction or damage to the Control Unit

Ensure the brown E, black F, red G, and blue H wires are plugged back into their original positions.

10. Using the indicated wrench, loosen and remove the fuse holders I from the front housing.
11. Remove the digital control label from the front housing.
12. Loosen and remove the seven screws J from the front housing.
13. Remove the User's interface from the front housing.

Discard the defective front housing.

14. Place the User's interface in the new front housing.

Position and tighten the provided screws.

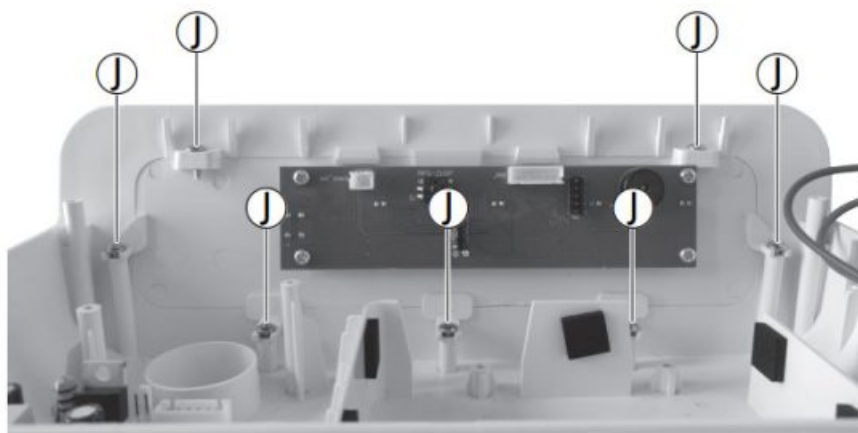


Fig. 4-6

15. Place the unit with the Invacare logo facing forward and install the new digital control stick-on label as illustrated.
16. Place and secure the remaining components on the new front housing in the reverse order in which they have been removed from the old one (see steps 5 to 10).
17. Reinstall the bottom housing.



Fig. 4-7

Replacing the Mains Cable Socket

Refers to spare parts kit SP1633111

Risk of damaging the PCB by electrostatic discharge

Handle PCBs only in Electrostatic Protected Areas



PH1 Phillips key

1. Switch off the control unit and disconnect from the main supply.
2. Remove the bottom housing (see 4.1).
3. Unplug the brown A and blue B wires from the defective main socket.

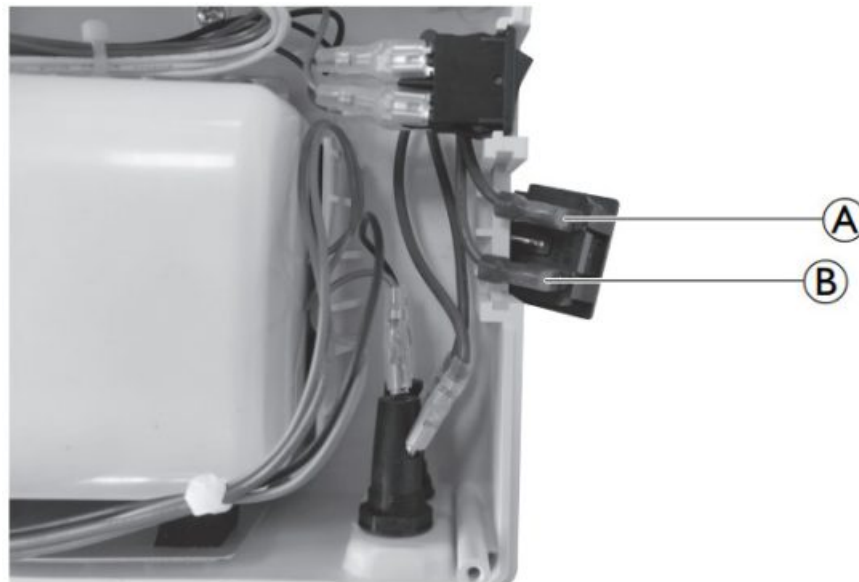


Fig. 4-8

! Risk of malfunction or damage to the Control Unit

Ensure the brown A and blue B wires are plugged back into their original positions.

4. Plug the brown A and blue B wires into the new main socket C, ensuring they are installed in the original position. Slide the socket into its slit.
5. Reinstall the bottom housing.

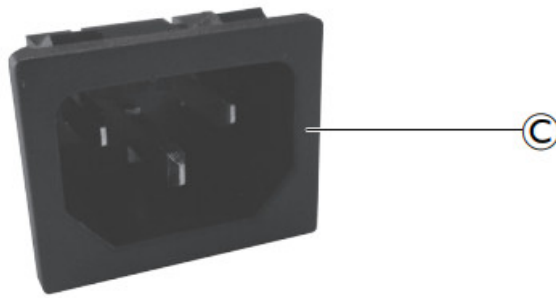


Fig. 4-9

Replacing the User Interface

Refers to spare parts kit SP1633233

Risk of damaging the PCB by electrostatic discharge

Handle PCBs only in Electrostatic Protected Areas



PH1 Phillips key

1. Switch off the control unit and disconnect from the main supply.
2. Remove the bottom housing (see 4.1).
3. Remove the user's interface label from the front housing.



Fig. 4-10

4. Unplug wires A, silicon tube B, and wires C from the UIPCB.

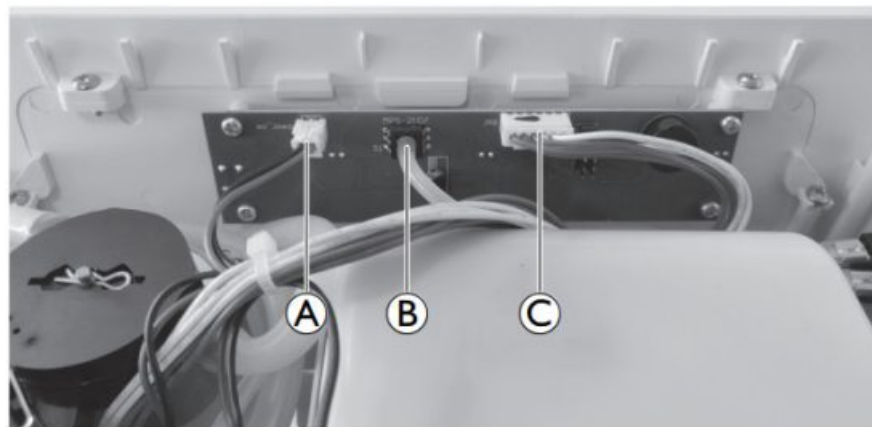


Fig. 4-11

5. Loosen and remove the seven screws fixing the interface label to the front housing (see 4.1, step 12).
6. Remove the non-functioning UIPCB from the housing.
7. Install the new User's interface, which includes a new – already attached – UIPCB, on the front housing.

8. Position and tighten the provided screws.
9. Plug wires A, silicon tube B, and wires C into the new UIPCB.
10. Reinstall the bottom housing (see 4.1).
11. Place the unit with the Invacare logo facing forward and install the new digital control stick-on label as illustrated.



Fig. 4-12

Replacing the Compressor

Refers to spare parts kit SP1633124

Risk of damaging the PCB by electrostatic discharge

Handle PCBs only in Electrostatic Protected Areas



PH1 Phillips key Wire clippers

1. Switch off the control unit and disconnect from the main supply.
2. Remove the bottom housing (see 4.1).
3. Loosen and remove the three screws A fixing the compressor to the front housing.

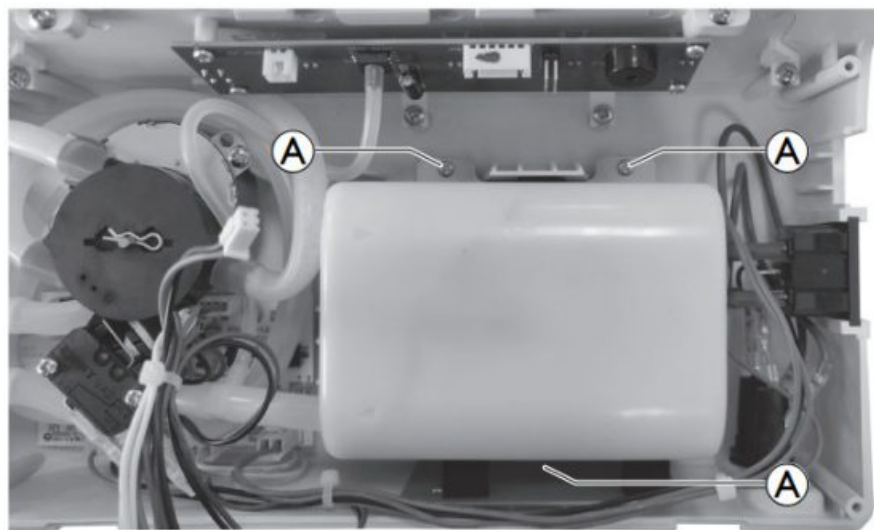


Fig. 4-13

4. Carefully unplug the silicon tube B and cut the cable tie C using the wire clippers.

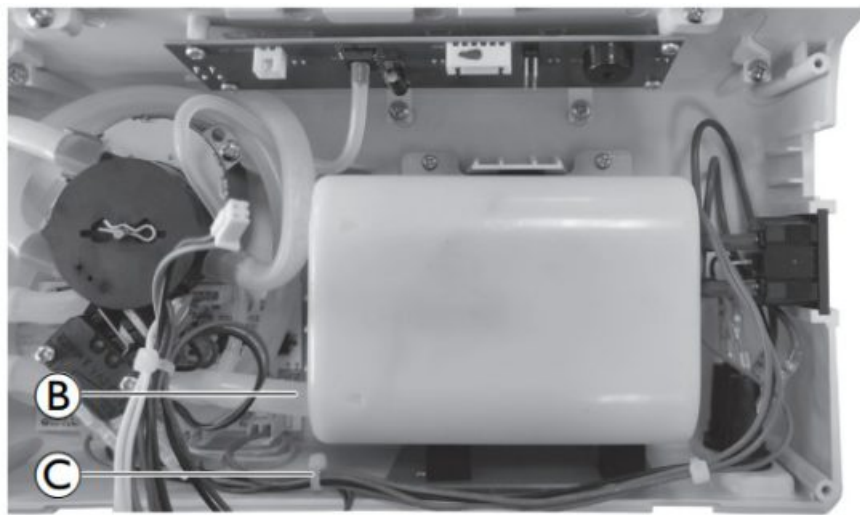


Fig. 4-14

5. Unplug the compressor wire D from the PCB.
6. Remove the non-functioning compressor from the housing and install the new one.
7. Position and tighten the provided screws.
8. Plug the silicon tube into the compressor.
9. Plug the mains wire into the PCB.
10. Secure the wires with the provided cable ties.
Cut the excess cable tie length.
11. Reinstall the bottom housing.

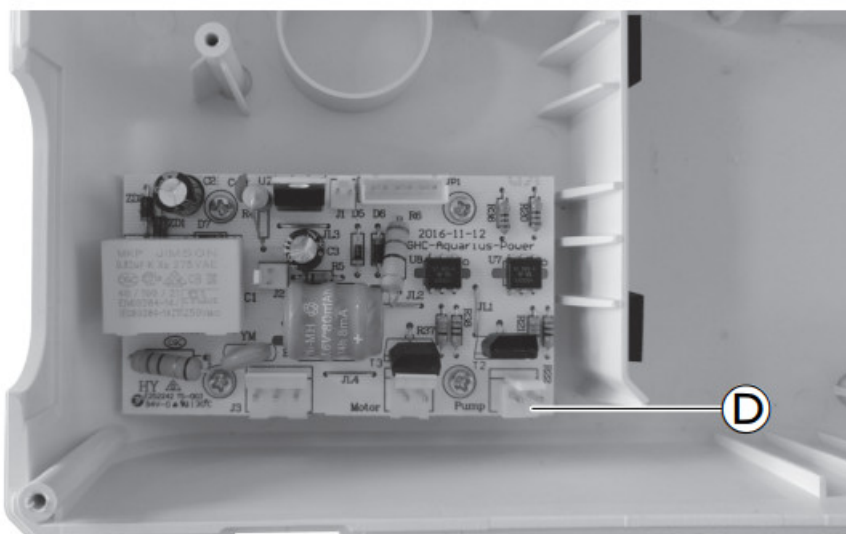


Fig. 4-15

Replacing the PCB

Refers to spare parts kit SP1633122

Risk of damaging the PCB by electrostatic discharge

Handle PCBs only in Electrostatic Protected Areas



PH1 Phillips key

1. Switch off the control unit and disconnect from the main supply.
2. Remove the bottom housing (see 4.1).

3. Unplug silicon tube A connecting the T-valve to the compressor, tube B from the CPR connector, and pressure tube C from the UIPCB.
4. Remove the CPR connector from its slit and untangle the silicone tubes around the motor.

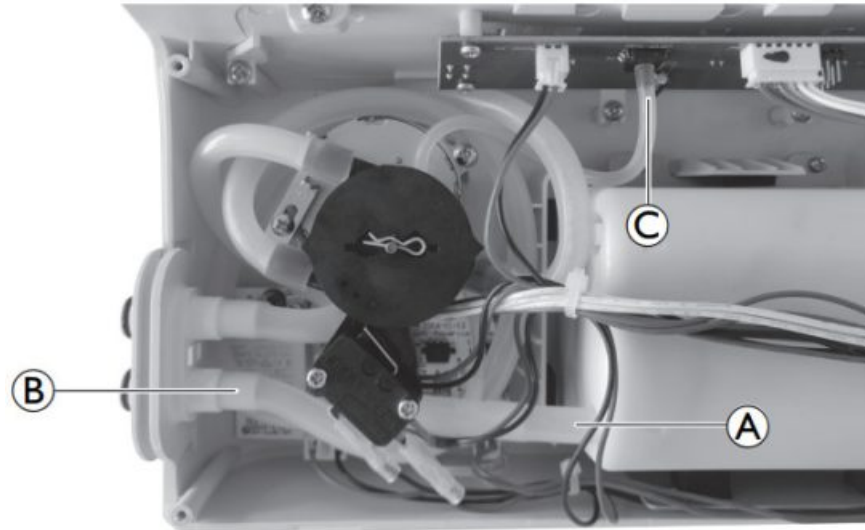


Fig. 4-16

5. Unplug the black and green wires D from the microswitch.
6. Loosen and remove the four screws fixing the PCB to the front housing.

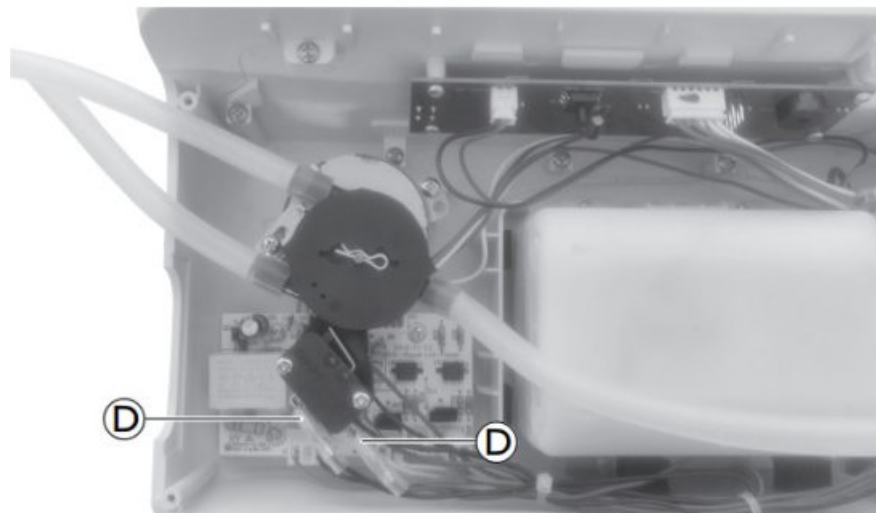


Fig. 4-17

7. Unplug the yellow motor wire E from the PCB.
8. Slide the PCB from under the microswitch and remove it from the housing. Unplug the five remaining wires from the PCB. Discard the non-functioning PCB.

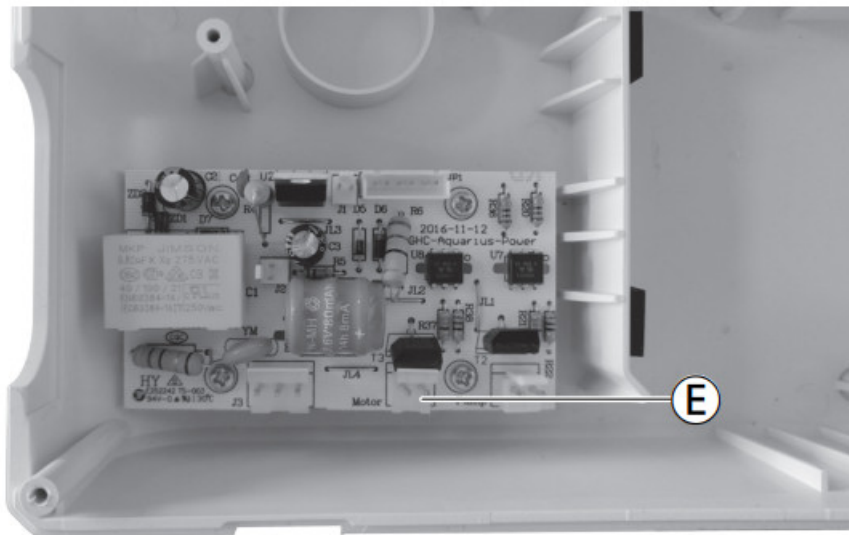


Fig. 4-18

9. Connect the five cables to the new PCB, in their original position: green and black power switch wire F, green and black micro switch wire G, 6-pin user interface wire H, red compressor wires I, and red and black fuse holder wire J.
10. Install the new PCB on the front housing, ensuring the yellow motor wire E goes under it.
11. Install the provided screws and tighten them.
12. Plug the yellow motor wire into its original position.
13. Plug the microswitch wires (see step 5).

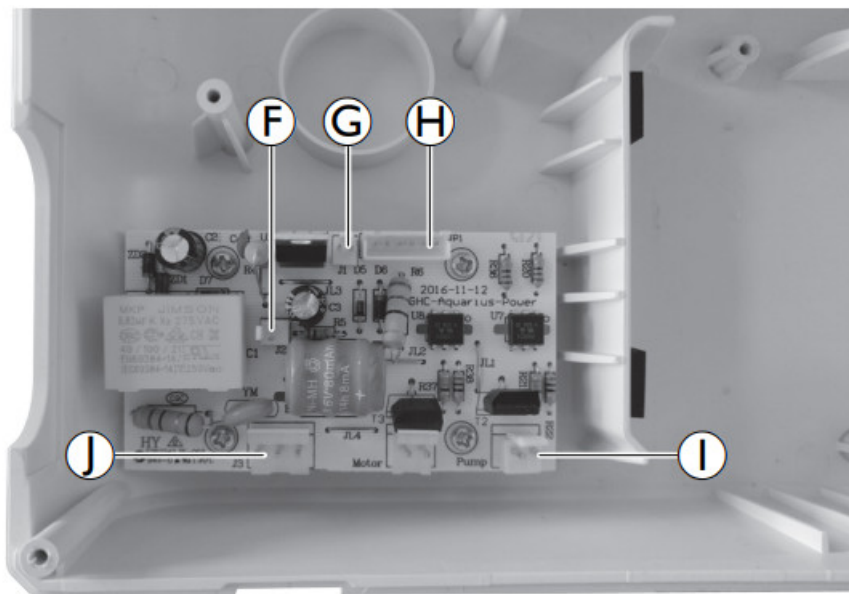


Fig. 4-19

14. Place the longer silicon tube (the one with the T-valve), counterclockwise, around the motor.

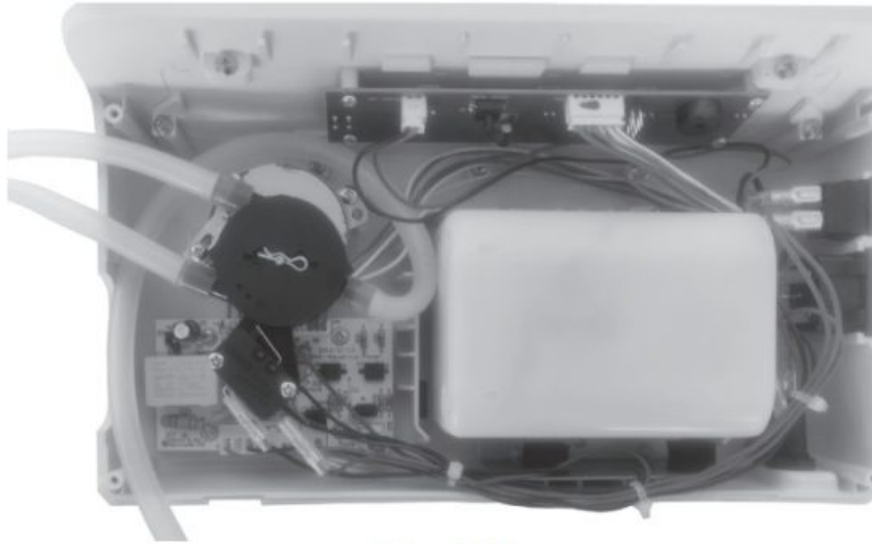


Fig. 4-20

15. Pick the longer tube connected to the CPR connector B, put it around the motor, clockwise, and plug it back to the connector, threading it under the microswitch wires D.

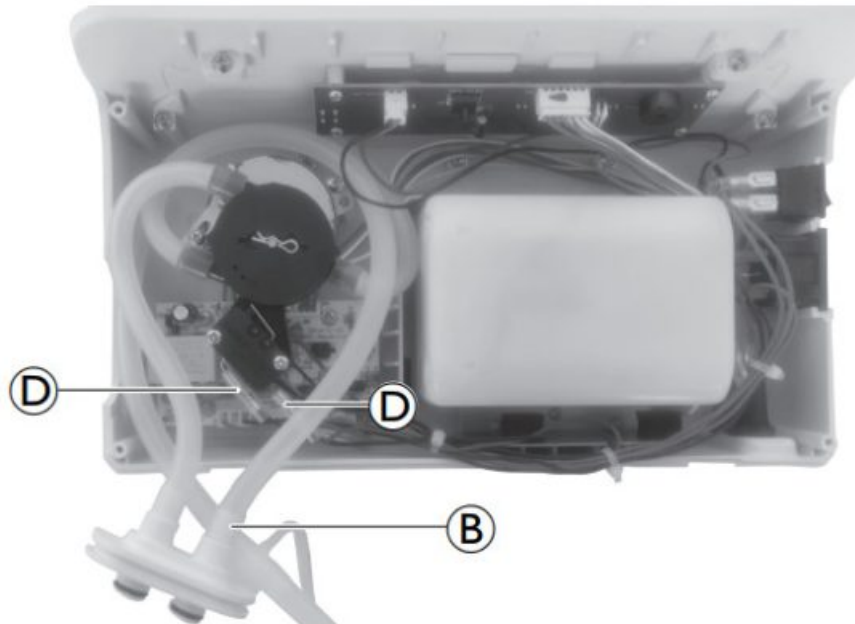


Fig. 4-21

16. Install the CPR connector in its place, making sure the longer silicon tube is underneath.

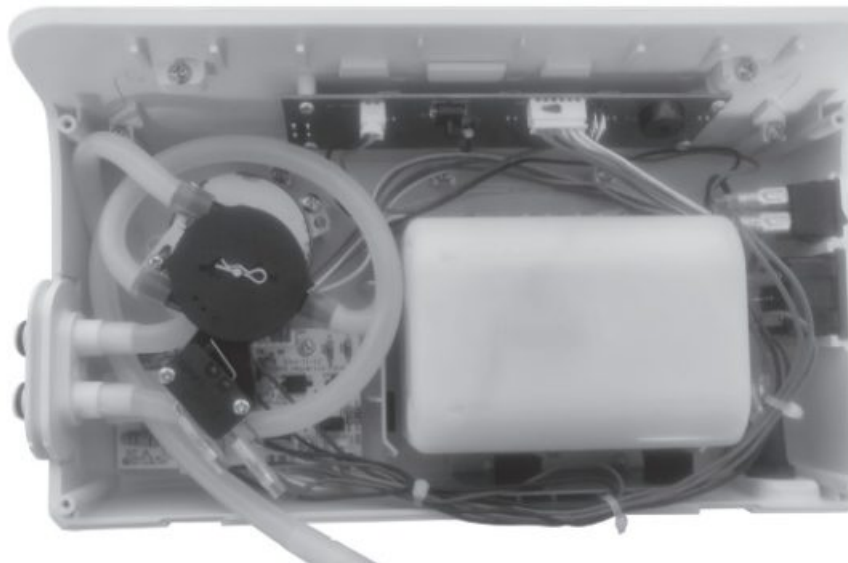


Fig. 4-22

17. Slide the T-valve underneath the microswitch, connect the wider tube to the compressor, and the thinner one to the user interface, making sure it goes under all the other tubes.
18. Reinstall the bottom housing.

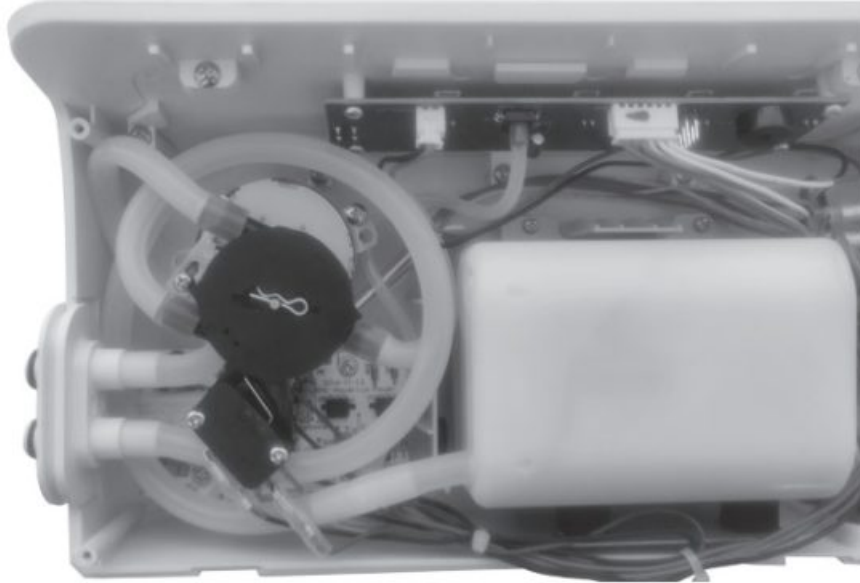


Fig. 4-23

Replacing the CPR Connector

Refers to spare parts kit SP1633238



•Risk of damaging the PCB by electrostatic discharge

Handle PCBs only in Electrostatic Protected Areas



PH1 Phillips key

1. Switch off the control unit and disconnect from the main supply.
2. Remove the bottom housing (see 4.1).
3. Unplug both silicon tubes A from the connector.
4. Discard the defective connector.
5. Reinstall the silicon tubes to the new connector and slide it into the slit. Ensure no tube is kinked or clamped.
6. Reinstall the bottom housing.

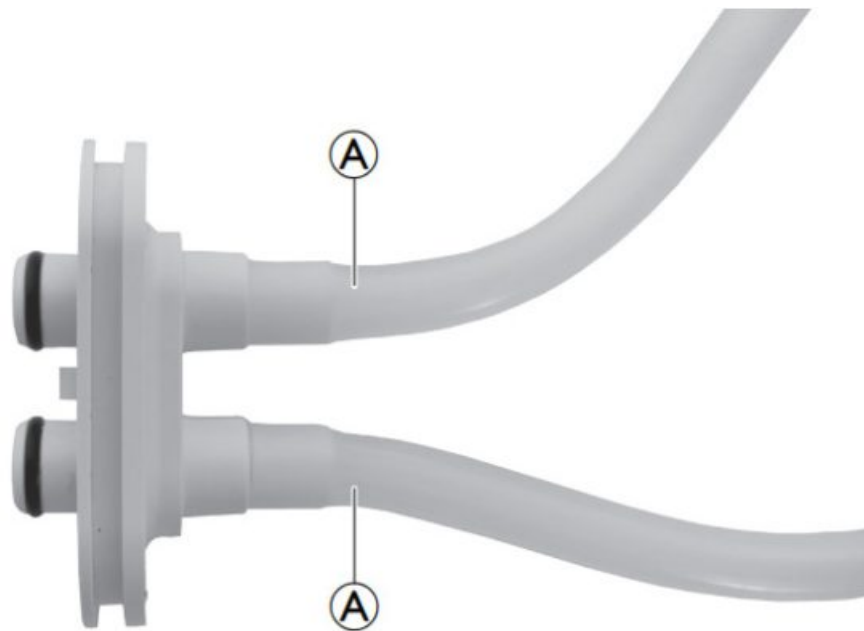


Fig. 4-24

Replacing the Tubing Set

Refers to spare parts kit SP1633112

Risk of damaging the PCB by electrostatic discharge

Handle PCBs only in Electrostatic Protected Areas



PH1 Phillips key

1. Switch off the control unit and disconnect from the main supply.
2. Remove the bottom housing (see 4.1).
3. Unplug tubes A to G. Discard them.
4. Install the 320 mm long tube on one side of the T-valve and the 40 mm long tube on the opposite side. Connect the third (smaller diameter) tube both to the T-valve and to the UIPCB.
5. Install remaining tubes to their original positions (see 4.5, steps 14 – 17).
6. Reinstall the bottom housing.

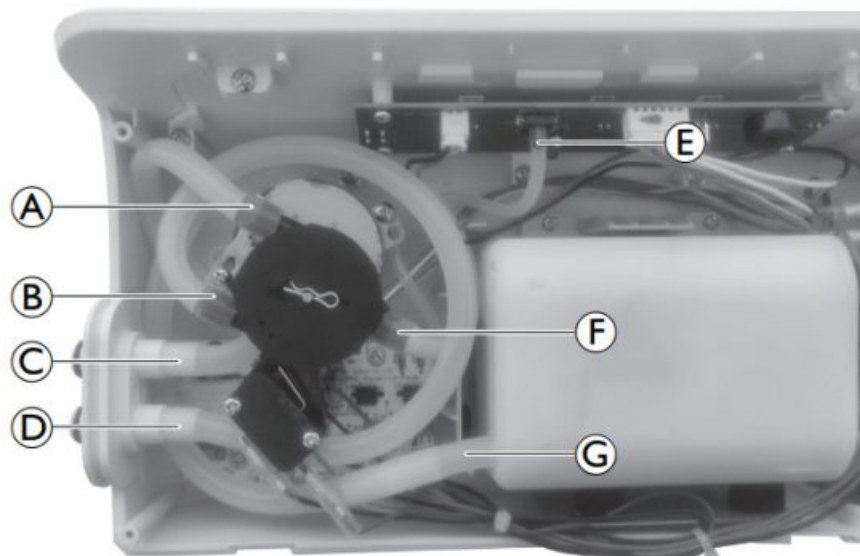


Fig. 4-25

Replacing the Motor

Refers to spare parts kit SP1633126

Risk of damaging the PCB by electrostatic discharge

Handle PCBs only in Electrostatic Protected Areas



PH1 Phillips key

1. Switch off the control unit and disconnect from the main supply.
2. Remove the bottom housing (see 4.1).
3. Unplug the three silicon tubes A connected to the motor.

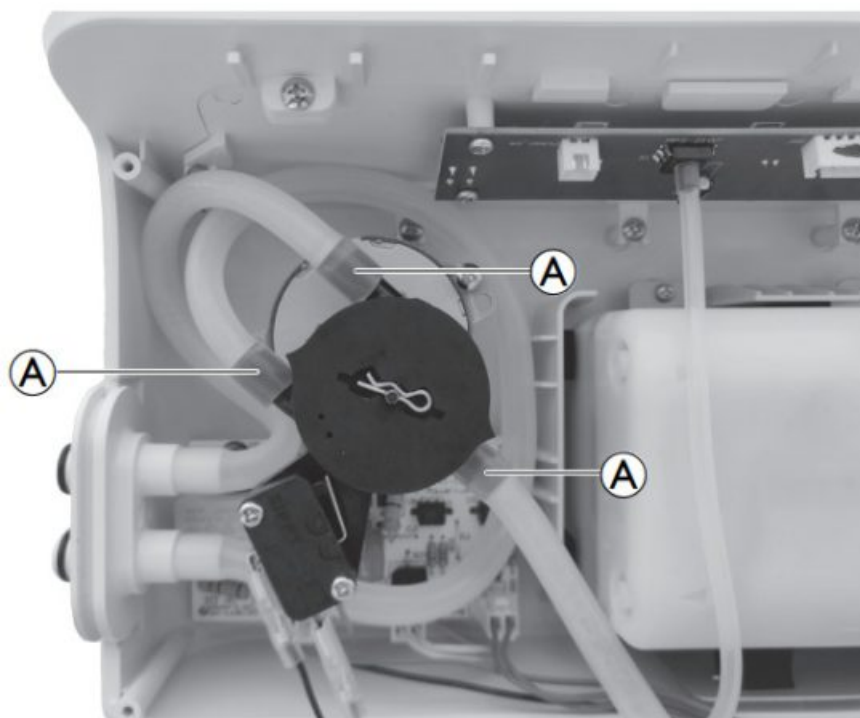


Fig. 4-26

4. Unplug the black B and green C wires from the microswitch.

! Risk of malfunction or damage to the Control Unit

Ensure the black B and green C wires are plugged back into their original positions.

5. Unplug the yellow motor wire from the PCB (see Fig. 4-18).

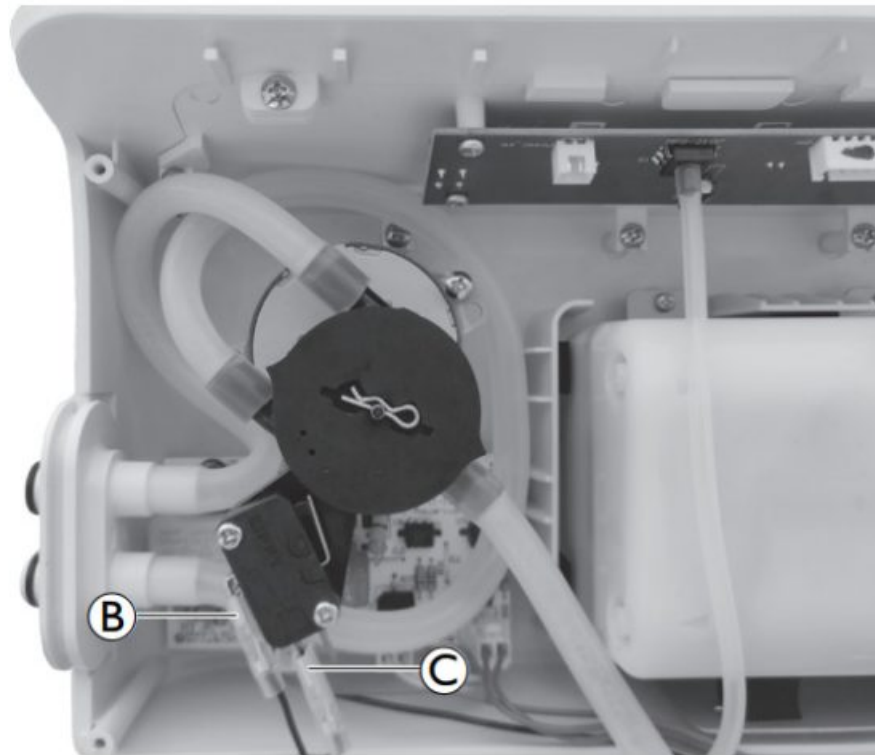


Fig. 4-27

6. Loosen and remove the screws D fixing the motor to the front housing.
7. Discard the non-functioning motor.
8. Install the new motor in its position.
9. Position and tighten the provided screws.
10. Plug tubes A and the wires to the new motor.
11. Reinstall the bottom housing.

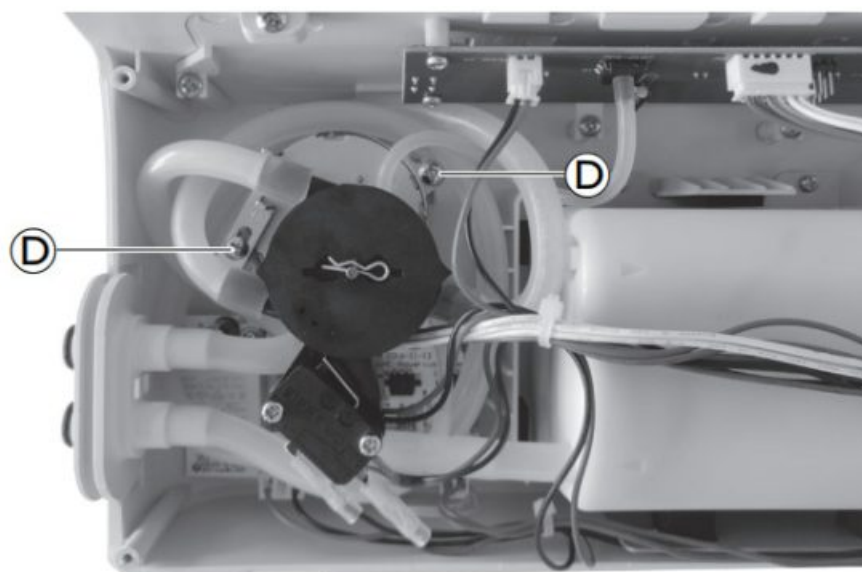


Fig. 4-28

Replacing the Power Switch

Refers to spare parts kit SP1633123

Risk of damaging the PCB by electrostatic discharge

Handle PCBs only in Electrostatic Protected Areas



PH1 Phillips key

1. Switch off the control unit and disconnect from the main supply.
2. Remove the bottom housing (see 4.1).
3. Unplug the red A, green B, and two black C wires from the defective power switch. Discard it.

Risk of malfunction or damage to the Control Unit

Ensure the red A, green B, and two black C wires are plugged back into their original positions.

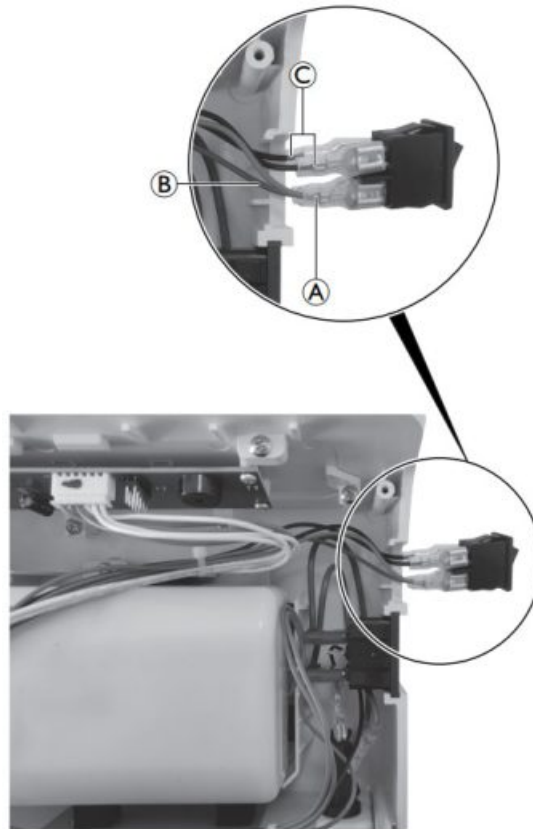


Fig. 4-29

4. Plug the red A, green B, and two black C wires back to their original positions on the new power switch.
5. Slide the switch into the slit.
6. Reinstall the bottom housing.

Replacing the Bottom Housing

Refers to spare parts kit SP1633246

Risk of damaging the PCB by electrostatic discharge

Handle PCBs only in Electrostatic Protected Areas



PH1 Phillips key

1. Switch off the control unit and disconnect from the main supply.
2. Remove the bottom housing (see 4.1).

3. Install the new bottom housing.
4. Position and tighten the provided screws.

Replacing the Fuses

1. Switch off the control unit and disconnect from the main supply.
2. Turn the unit upside down.
3. Unscrew the fuse holders A. Remove them from the unit.



Fig. 4-30

4. Remove the fuses from their holders. Discard the defective fuses.
5. Install the new fuses on their holders.
6. Position the fuse holders back to the unit and tighten them.



Fig. 4-31

Service | Mattress

Replacing the CPR Connector

Refers to spare parts kit SP1633708

1. Switch off the control unit and disconnect from the main supply.
2. Open the zipper of the mattress and remove the top cover.
3. Remove the orange castellated foam insert.
4. Find the CPR connector at the mattress foot end.
Unplug it at the tube's extremities A.
5. Slide the defective connector off its sleeve and replace it with the new one.
6. Plug the new connector onto the tube extremities.
7. Place the foam insert back on top of the mattress and close the mattress cover's zipper.

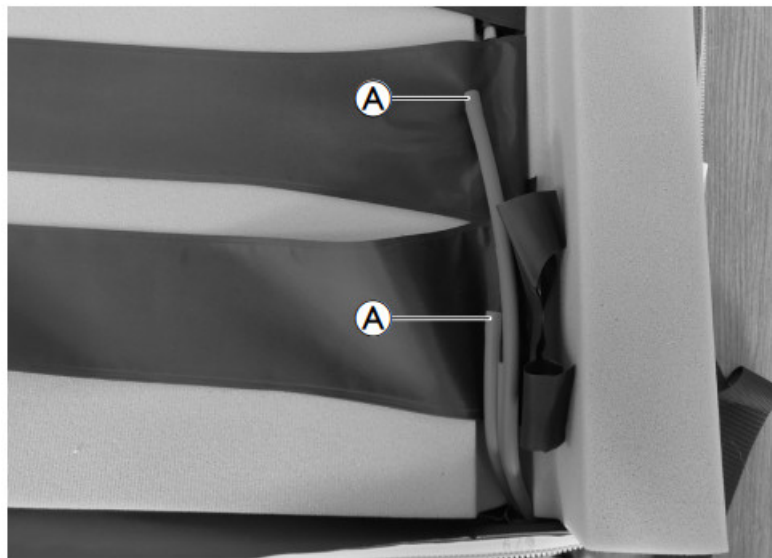


Fig. 5-1

Replacing the Air Cell Set

Refers to spare parts kits: SP1538771, SP1629717, SP1639718, SP1639719

1. Switch off the control unit and disconnect from the main supply.
2. Open the zipper of the mattress and remove the top cover.
3. Remove the orange castellated foam insert.
4. Find the CPR connector at the mattress foot end. Unplug it at the tube's extremities (see 5.1).
5. Detach the tubes connected to the T-valve A located on the penultimate air cell.

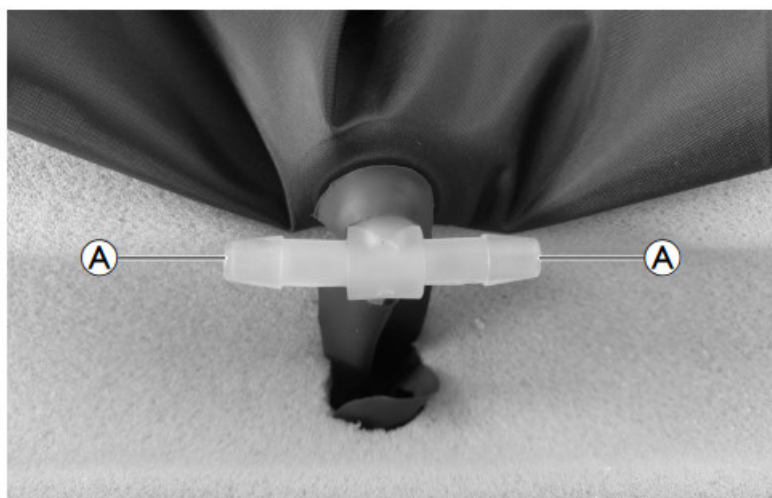


Fig. 5-2

6. Slide the T-valve through the strap's hole.
7. Thread the strap through the buckle B positioned on the blue foam's lower side.
8. Discard the defective air cell set.
9. Repeat steps 5 to 7 for the five remaining T-valves.
10. Install the new air cell set and secure it with the provided straps and buckles.
11. Place the foam layer back on top of the mattress and close the mattress cover's zipper.

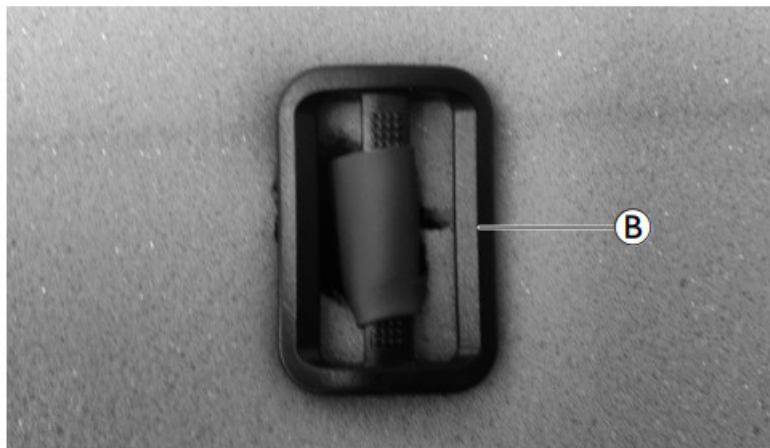


Fig. 5-3

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2021-11-23





Yes, You, can

Documents / Resources

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