

carilex®



**AVA Low Air Loss POWER UNIT  
SERVICE MANUAL**

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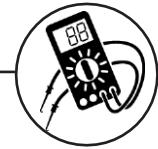
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## General Information

### A. Introduction

The AVA LAL Power Unit can be matched with the TheraFlo 7 & 9 M-set .

This AVA LAL Service Manual provides repair and maintenance instructions for the AVA LAL Power Unit.

Any trained maintenance staff member can perform the procedures described in the sections of this manual that are designated Level 1.

Only manufacture-authorized service personnel can perform the procedures described in the sections of the manual that are designated Level 2.

If the system cannot be repaired using the procedures described in the Level 1 sections of this manual and there are no manufacture-authorized service personnel available, please contact Carilex or your local distributor to receive a return authorization number and a return address where the system can be sent for repair and servicing.

#### **Intended Use:**

The therapeutic air alternating mattress / cushion system is designed for patients who endure pressure ulcer and potential patients who wish to reduce the likelihood of pressure ulcer. The device is intended to treat and prevent pressure ulcers by facilitating blood circulation and decreasing pressure of each tissue's contact area.

#### **Contraindications:**

Certain patient conditions are not suitable for using this type of device such as fracture of instable vertebrae and illness of instable vertebrae. Always consult a physician or health professional before using this device. Always consult a physician or health professional before using this device. The use of this system does not replace the regular repositioning, monitoring, and nursing of the patient.

## B. Safety Precautions

### Installation:

Verify mattress anchor straps are attached to bed frame securely to ensure proper operation, inspect and verify air cells are upright and in place. Test all bed frame functions to verify no interference. Do not place anything on the power unit. Route power cord underneath bed frame and verify freedom from hazard.

### Bed Linens:

This device incorporates a waterproof cover that is moisture vapor permeable; therefore, it is recommended to limit bed linens to one sheet in order to maximize the system's performance.

NOTE: Only "breathable" incontinent pads are recommended for use with this device.



### Open Flames:

Do not expose this device to open flames, lighters, or cigarettes. This device draws room air continuously, therefore cigarette smoking is not recommended near this device. Cigarette smoke may damage internal components. Cigarettes may ignite bed linens.

CAUTION: DO NOT SMOKE CIGARETTES, PIPES, CIGARS, OR ANY OTHER RELATED PRODUCTS ON OR AROUND THIS SYSTEM. FLAMMABILITY HAZARD EXISTS.

## C. Warnings



### Cross Contamination:

This device should be decontaminated between patient installations. Refer to Power Unit and Mattress Maintenance Sections of this Manual for proper instructions. Failure to disinfect may result in cross contamination.



### Weight Limitation

Verify that the patient weight, therapeutic support surface, bed rails, etc. do not exceed weight capacity of the bed frame. Verify patient weight does not exceed this device's weight capacity.



### Entrapment:

When using side rails and/or assist devices, use a mattress thick enough and wide enough so that the gap between the top of the mattress and the bottom of the side rails and the gap between the side of the mattress and the side rails is small enough to prevent a patient from getting his or her head or neck between the mattress and the side rail. Failure to do so could result in serious patient injury or death.



### Patient Falls:

Failure to use bed rails in raised position could lead to accidental patient falls. Air mattresses have soft edges that may collapse when patients roll to that edge.



### Risk of Electric Shock:

DO NOT open back cover. This device is NOT user serviceable. This device should only be opened by qualified personnel approved by Carilex. Refer all service to your local Carilex authorized dealer.



### Oxygen Equipment:

Explosion risk if used in the presence of flammable anesthetics.

**Electrical:**

Do not insert items into any opening of the power unit. This could short internal components, which could cause fire or electrical shock. This product is NOT AP/APG protected. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

**IP21:**

In accordance with the acceptance conditions as required by IEC 60529-V2.2:2013

**Class II product:**

This product is a Class II product. Do NOT cut or remove the grounding prong for shock prevention from the plug on this product if it is present. In the event that a non-compatible wall receptacle is found, it is the customer's personal responsibility and obligation to contact a qualified electrician to replace it with a compatible wall receptacle in accordance with the National Electrical Code.

**Extension Cord:**

If for any reason, you find it necessary to use an extension cord, ONLY use an appropriate extension cord that has the same or higher electrical rating as the device it is being connected to.

**Proper Mattress Set:**

The power unit and mattress are design to work together for patient's safety reason. Power unit should only be used with the correct mattresses recommended by the manufacture. Mismatching the power unit and mattress is strictly prohibited. Misusage may lead to patient risk.

**Hospital Grade receptacle:**

Note: Grounding reliability can only be achieved when the plug is connected to an equivalent receptacle marked "Hospital Grade" or "Hospital Only".

# Maintenance - Level 1

## A. Introduction

Any trained maintenance staff member can perform the procedures described in the sections of this manual that are designated Level 1.

## B. Tools Required

Philips PH2 Screwdriver .....



Wire Cutters .....



Sharp Knife .....



## Power Unit

### A. Part Identification Overview



Fig: 1

- ① Air Outlet
- ② Power Receptacle
- ③ Air Filter
- ④ Hanger Hooks



## B. Setting Up and Switching On the Power Unit

1. Use the hanging hooks (Fig: 1) to attach the power unit to the foot end of the bed.
2. Connect the CPC connectors from the mattress to the air outlet (Fig: 1) on the power unit.
3. Connect the power cable to the power receptacle (Fig: 1) and to a mains power supply ensuring that the power is switched on at the mains outlet.
4. Press the power button on the control panel to power on the power unit (Fig: 2).
5. The compressor will start, all of LEDs will light up and the Pressure Monitoring LED above the power button will flash.



Fig: 2

	<b>Power</b>		<b>Max. Inflation</b>
	<b>Panel Unlock</b>		<b>Upright Comfort</b>
	<b>Mute</b>		<b>Variable Dynamic Mode</b>
	<b>Weight(kg)</b>		<b>Pulsate Mode</b>
	<b>Weight(kg)</b>		<b>Alert LED</b>
	<b>Mode</b>		<b>Pressure Monitoring LED</b>
	<b>Cycle Time</b>		

## C. General Maintenance

### Body and Air outlet

1. Thoroughly inspect the body casing and panel foil for any damage, such as cracks, where moisture might get inside.
2. Check the air outlet for damage that may have occurred through impact or misuse.
3. Check that the O-ring on the male CPC connector (Fig: 3) is in place and not damaged or cracked.
4. Check around the edges power receptacle for damage that may have occurred through impact or misuse.

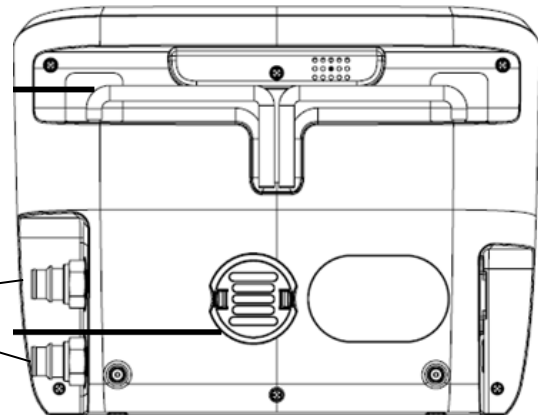
### Power Cable

1. Thoroughly check the full length of the power cord for any damage such as brittleness or splits.



**IF THE POWER CABLE IS DAMAGED IN ANY WAY, DO NOT CONNECT THE POWER UNIT TO ANY POWER SUPPLY UNTIL A NEW POWER CABLE HAS BEEN FITTED**

Check that the O-ring on the male CPC connector is in place and not damaged or cracked.



**Fig: 3**

### Abnormal Noise

If the power unit makes abnormal noise during operation, such as grinding, rattling or excessive compressor noise or vibration, switch off and unplug the power unit. The power unit must be repaired before it can be used again.



**DO NOT USE A POWER UNIT THAT IS MAKING AN ABNORMAL NOISE AS FURTHER DAMAGE OR ELECTRICAL FAILURE MAY OCCUR**

## D. General Cleaning Instructions



**ALWAYS UNPLUG THE POWER UNIT BEFORE CLEANING**



**NEVER SPRAY LIQUIDS DIRECTLY ONTO A POWER UNIT**



**NEVER IMMERSE A POWER UNIT IN ANY LIQUID**

### Routine Cleaning During Use

1. Dampen a clean cloth with soap and water or a mild, neutral detergent and then wipe the power unit.

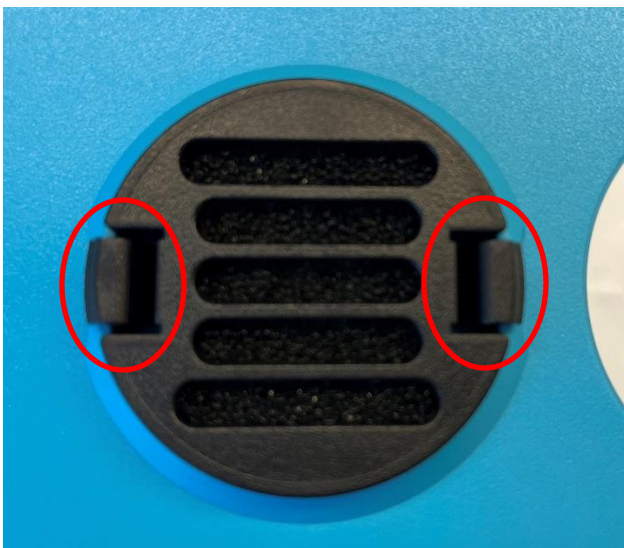
### Routine Decontamination Between Patients

1. Dampen a clean cloth with soap and water or a mild, neutral detergent and then wipe the power unit.
2. Disinfect the power unit with hospital grade registered disinfectant. Let the power unit stand for the appropriate contact time, according to the manufacturer's instructions.
3. Dry the power unit using a clean, dry cloth or disposable paper towels.
4. Wrap the power unit in plastic and store in a cool, dry place.

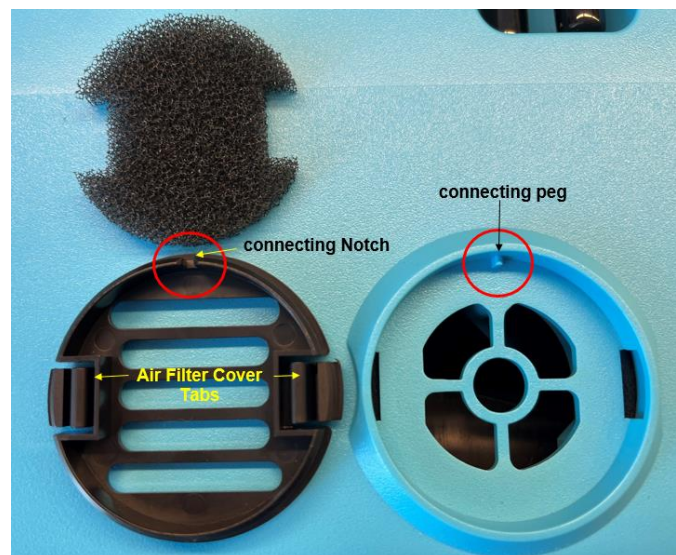
## E. Air Filter Maintenance

*It is recommended that the air inlet is serviced annually.*

1. The air filter is on the rear of the unit, press in both the air filter cover tabs together and lift the air filter cover from the casing. (Fig: 4)
2. Remove the cotton filter. (Fig: 5)
3. Wipe any dust from the air filter cover and pump casing using a dry cloth.
4. Place a new cotton filter into the air filter cover and place it back into the casing, ensuring that the notch in the air filter cover lines up with the peg in the casing. (Fig: 5)
5. Press on each of the air filter cover tabs so that it snaps back into place.



**Fig: 4**



**Fig: 5**

## F. Replacing Panel Foil



**NEVER SPRAY LIQUIDS DIRECTLY ONTO A POWER UNIT**



**IF LIQUID IS ALLOWED INTO THE CASING OF THE POWER UNIT, EXTENSIVE DAMAGE MAY RESULT**

1. The panel foil is held in place by a self-adhesive backing. Use a small, thin, flat bladed knife to pry up an edge and gently pull the panel foil to remove it.(Fig: 5)
2. Clean the surface thoroughly to remove any excess adhesive that may remain on the body case.
3. Remove the backing material from the new panel foil and position it on the pump casing. Slowly roll down the new panel foil pressing firmly on the entire surface to ensure full adhesion.



**Fig: 6**

## Maintenance and Repair - Level 2

### A. Introduction

The procedures described in Maintenance and Repair – Level 2 must only be carried out by manufacture-authorised service personnel. If your system cannot be repaired using the instructions in the Level 1 sections of this manual and you are not a manufacture-authorised service person, please contact Carilex Medical Inc. regarding repairs.

**Be sure to seal the power unit with a new Do Not Open sticker after carrying out any of the procedures designated Level 2 and fill out a Product Service Record and email to Carilex Medical Inc. or to your distributor.**

### B. Tools Required

Philips PH2 Screwdriver .....



Wire Cutters .....



Sharp Knife .....



Small Flat Screwdriver .....



Small Pliers .....



Cleaning Alcohol .....



Lacquer .....



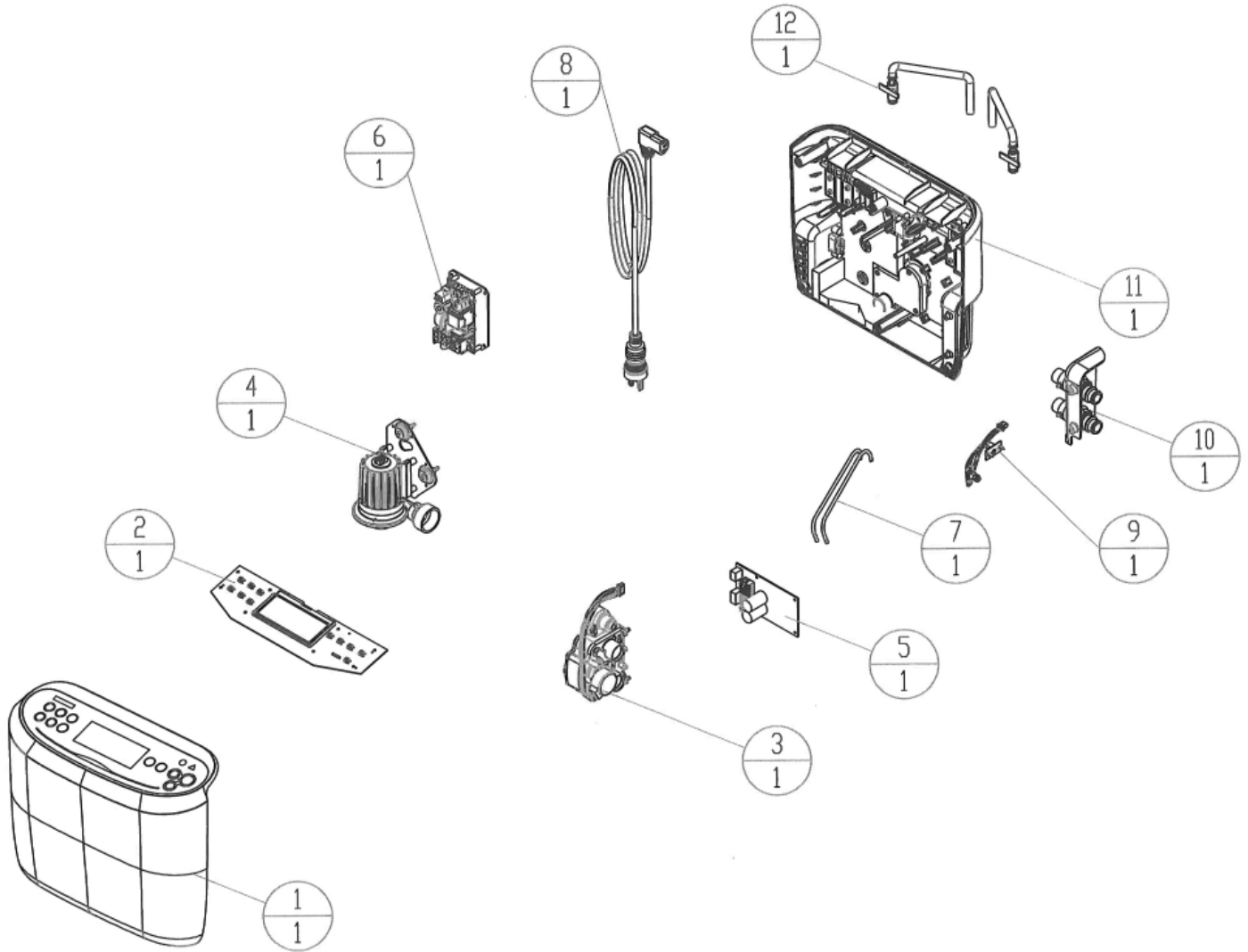
Superglue .....



**ONLY FACTORY APPROVED PERSONNEL ARE AUTHORIZED TO USE THE REPAIR SECTION OF THIS MANUAL**

# Power Unit

## A. Part Identification Overview



1	Top Case	7	Silicon Tube Set
2	Control PCB Set	8	Power Cable
3	Air Valve Set	9	Hall Sensor PCB
4	Compressor Set	10	Side Case
5	Power PCBA Set	11	Bottom Case
6	Power module Set	12	Hanging Hooks

ONLY FACTORY APPROVED PERSONNEL ARE AUTHORIZED TO USE THE REPAIR SECTION OF THIS MANUAL

## B. Replacing the Top Case

1. Gently break the “Do Not Open” seal with a sharp knife.
2. Remove the 6 screws from the rear of the power unit. (Fig: 7)
3. Remove and layover the top case taking care not to pull on the wires. (Fig: 8)
4. Remove the one wires from the control PCB.
5. Remove the 8 screws from the control board and set the control board and the white buttons, found in the top case, aside. (Fig: 9)
6. Reverse the procedure to install the new unit, ensuring that the wire and silicone tube routing is exactly as found.



**ALWAYS DISCONNECT THE POWER CABLE FROM THE POWER UNIT BEFORE CARRYING OUT REPAIRS ON THE POWER UNIT**

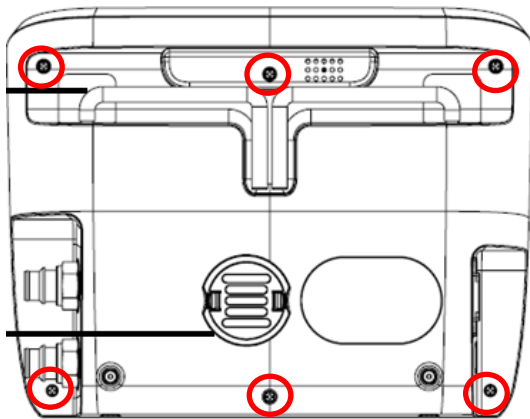


**TAKE CARE NOT TO TRAP ANY WIRES OR SILICONE TUBES BETWEEN THE TOP AND BOTTOM CASES AS THIS MAY RESULT IN MALFUNCTION OF THE POWER UNIT**



To avoid electrostatic discharge, ground yourself by using a wrist grounding strap or by periodically touching an unpainted metal surface, such as the back panel of your computer.

**IMPORTANT – Be sure to place a new Do Not Open sticker onto the underside of the power unit and fill out a Service Record Form (found at the end of this manual) and fax/mail to Carilex or Your distributor.**



**Fig: 7**



**Fig: 8**

### C. Replacing the Control PCBA set

1. Follow the steps in “Replacing the Top Case” to remove the top case.
2. Disconnect the two wire ①&② from the control PCBA. (Fig: 9)
3. Remove the 8 screws from the control PCBA. (Fig: 9)
4. Gently lift out the control PCBA, taking care not to disturb the white silicone switch buttons.
5. Reverse procedure to install new unit, ensuring that wire and silicone tube routing is exactly as found and taking care not to over-tighten the screws.

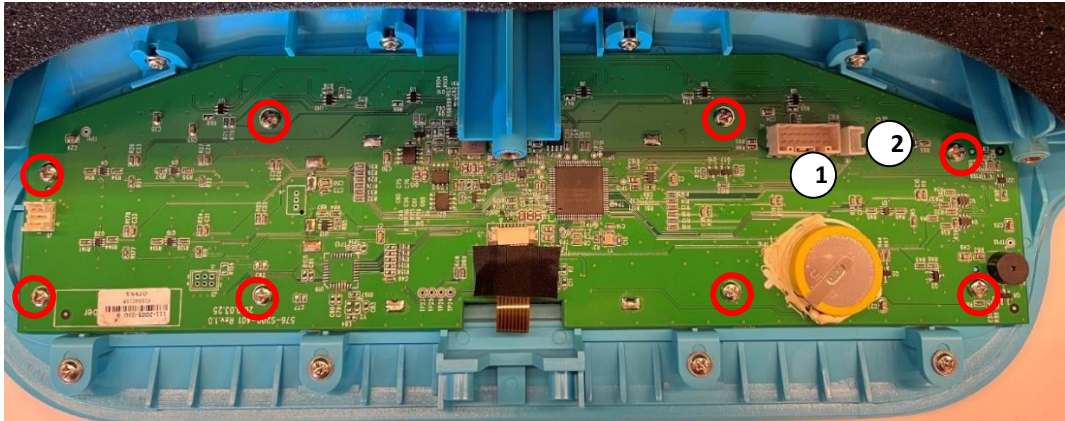


Fig: 9

### D. Replacing the Power PCBA set

1. Follow the steps in “Replacing the Top Case” to remove the top case.
2. Take note of where all 6x connectors fit. Then remove all 6x connectors and two Silicone tube from the power PCB.
3. Remove the four power PCB retaining screws (Fig: 10)
4. Lift out power PCB.
5. Reverse procedure to install new unit, referring to Fig: 10 for the positions of the connectors, ensuring that the wire routing is exactly as found.

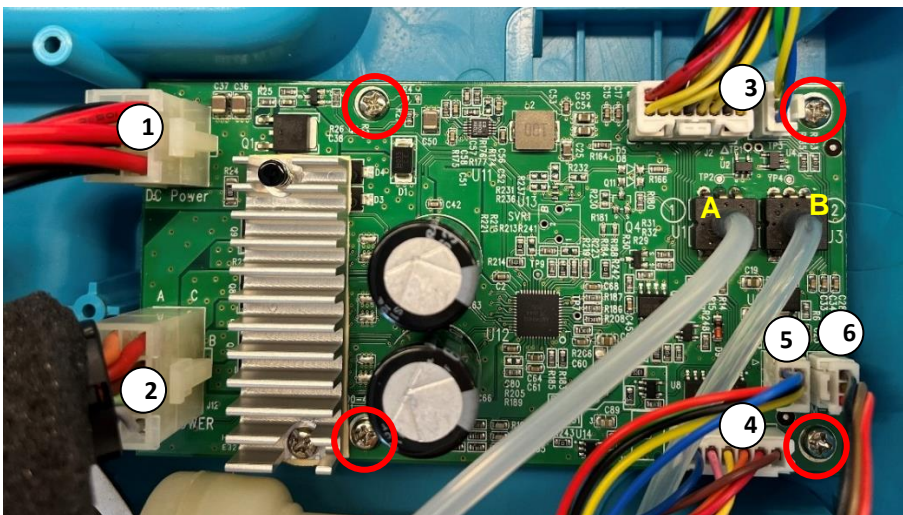


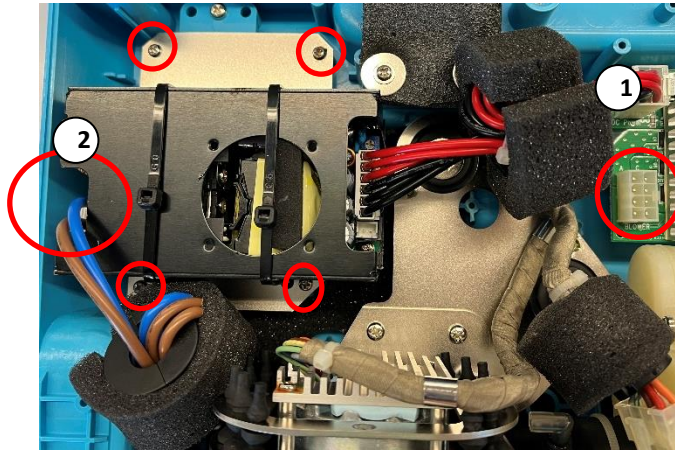
Fig 10

1	Power module Connector
2	Compressor Connector
3	Control PCBA Connector*2
4	Air Valve Motor Connector
5	Air Valve sensor Connector
6	Hall sensor Connector
	Silicone tube*2 (A_length:18cm) (B_length:22cm)



## E. Replacing the Power module Set

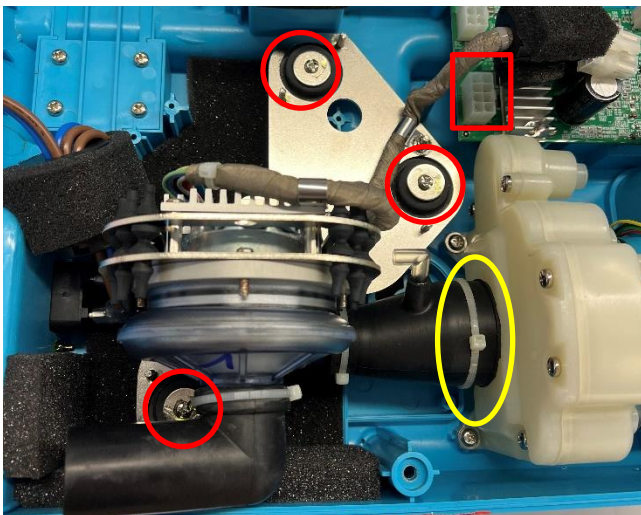
1. Follow the steps in “Replacing the Top Case” to remove the top case
2. Disconnect the one wire ① from the power PCB and the other wire ② from the AC inlet. (Fig: 11)
3. Remove the 4 screw from power module set then lift it out.(Fig: 11)
4. Reverse procedure to install new unit, ensuring that wire routing is exactly as found.



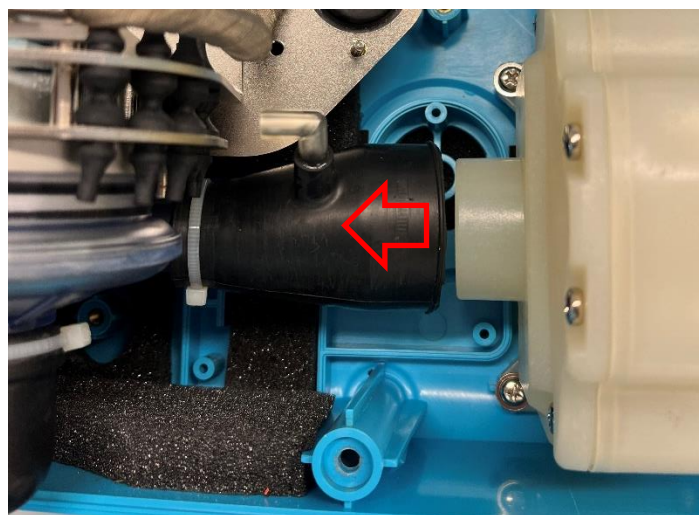
**Fig: 11**

## F. Replacing the Compressor

1. Follow the steps in “Replacing the Top Case” to remove the top case.
2. Follow the steps in “Replacing the Power module Set” to disconnect the one wire from the power PCB (Fig:11).
3. Disconnect compressor connector from Power PCB. (Fig: 12)
4. Remove the 3 screw from compressor set(Fig: 12)
5. Cut the cable tie on black tube, which holding with air valve set and the compressor set. (Fig: 12)
6. Gently pull the compressor leftward to remove compressor set from the air valve. (Fig: 13)
7. Reverse procedure to install the new compressor, using the needle nose pliers to tighten the cable tidy in the black tube and ensuring that wire routing is exactly as found.



**Fig:12**



**Fig:13**

## G. Replacing the Air Valve Set

1. Follow the steps in “Replacing the Top Case” to remove the top case.
2. Follow the steps in “Replacing the Compressor” to remove the compressor from the bottom case (Fig:13)
3. Remove the one screw from the cable tidy on the side case and disconnect ①② wire from Power PCB. (Fig: 14)
4. Remove the 4 screw from air valve set. (Fig: 14)
5. Gently pull the compressor leftward to remove air valve set from the side case. (Fig: 15)
6. Reverse procedure to install new unit, ensuring that wire routing is exactly as found. (Fig: 14)

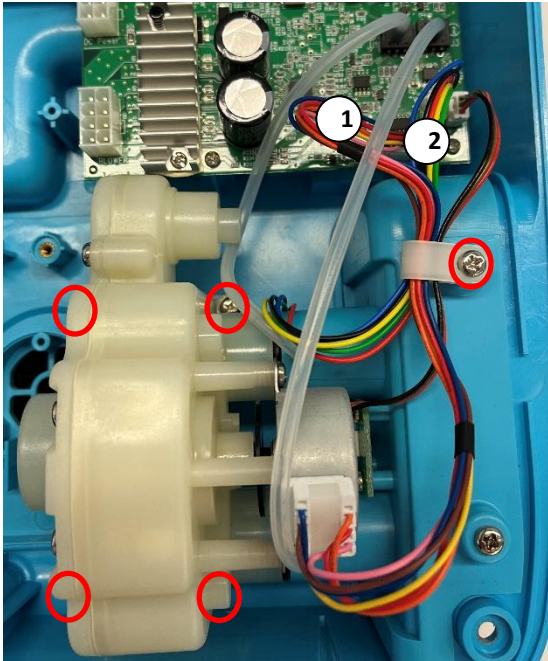


Fig:14

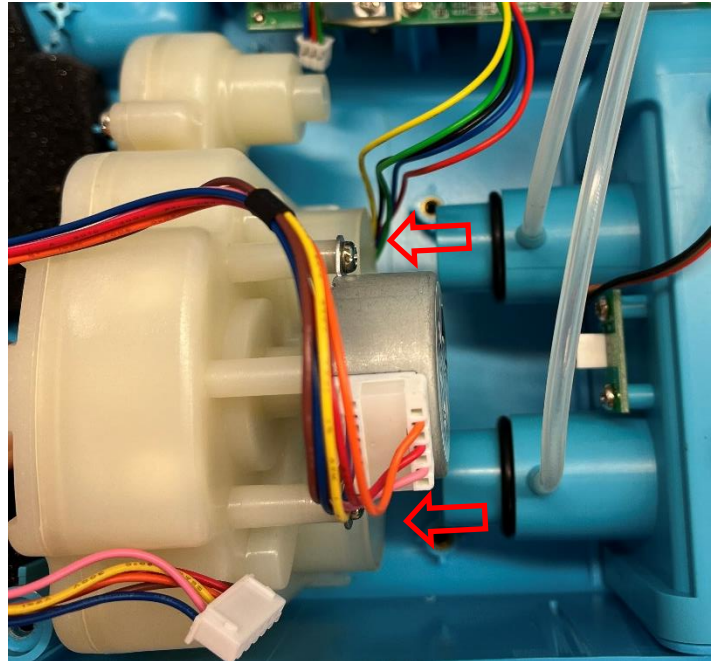


Fig:15

## H. Replacing the Silicone Tube Set

1. Follow the steps in “Replacing the Top Case” to remove the top case.
2. Remove the two silicone tubes from the power PCB (Fig: 10) and the tube's other side from the side case.(Fig: 16)
3. Reverse procedure to install new unit, ensuring that tube routing is exactly as found.

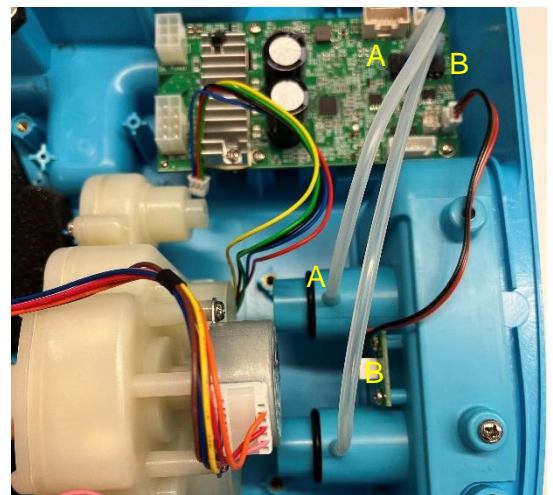
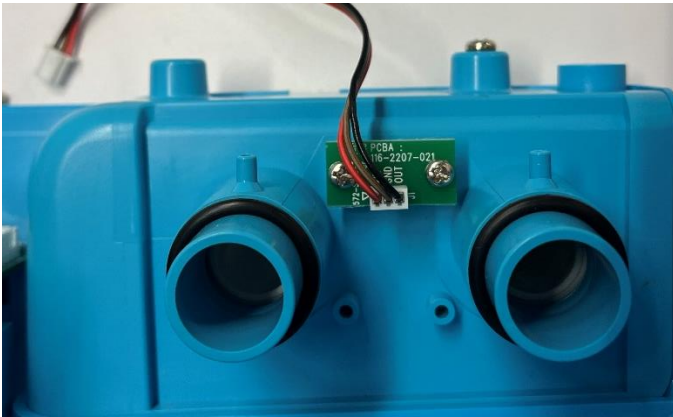


Fig: 16

## I. Replacing the Hall sensor

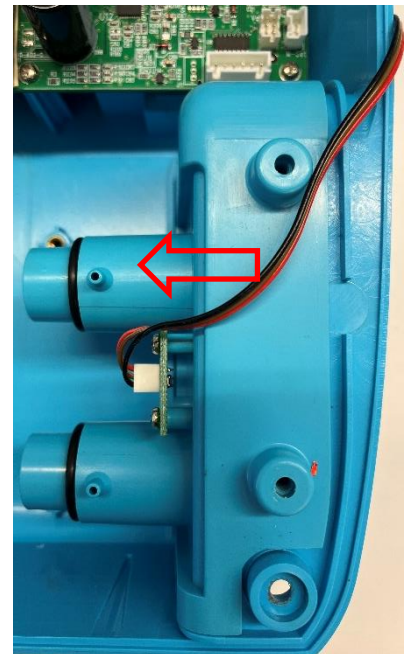
1. Follow the steps in “Replacing the Top Case” to remove the top case.
2. Follow the steps in “Replacing the Compressor” to remove the compressor from the bottom case (Fig:13)
3. Follow the steps in “Replacing the Air valve” to remove the air valve from the bottom case(Fig:15).
4. Remove the ⑥ connectors (Fig: 10) from the power PCB.
5. Remove the 2 screw from side case and take off the sensor PCB . (Fig: 17)
6. Reverse procedure to install new unit, ensuring that tube routing is exactly as found.



**Fig: 17**

## J. Replacing the Side Case

1. Follow the steps in “Replacing the Top Case” to remove the top case.
2. Follow the steps in “Replacing the Compressor” to remove the compressor from the bottom case (Fig:13)
3. Follow the steps in “Replacing the Air valve” to remove the air valve from the bottom case(Fig:15).
4. Follow the steps in “Replacing the Hall sensor” to remove the sensor PCB from the side case(Fig:17)
5. Remove the two screws from the side panel.(Fig: 18)
6. Gently pull the side case leftward from the bottom case.(Fig:18).
7. Reverse the procedure to install new unit ensuring that the case assembling is exactly as found.



**Fig: 18**

## K. Replacing a Hanging Hook

1. Follow the steps in “Replacing the Top Case” to remove the top case.
2. Follow the steps in “Replacing the Power module Set” to remove the power module set. (Fig:11)
3. Follow the steps in “Replacing the Power PCBA set” to remove the power module set. (Fig:10)

4. Remove the 5 screws from the hanging hooks and then remove the hanging hook case from the bottom case. (Fig: 19)
5. Place a new hanging hook into the hanging hook slot, fitting it securely and then place the hanging hook retaining plates into the retaining plate slots so that they fit securely.(Fig: 20)
6. Replace the 5 screws into the hanging hook retaining plates and tighten them.

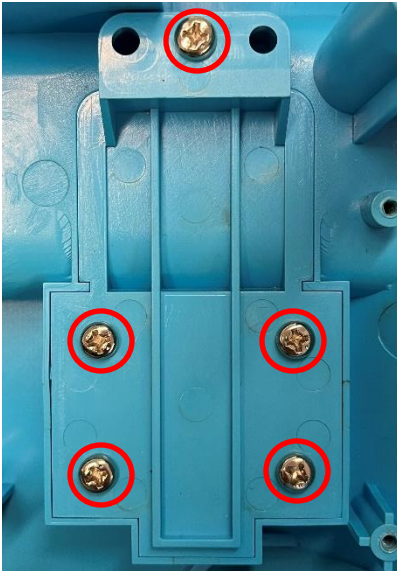


Fig: 19

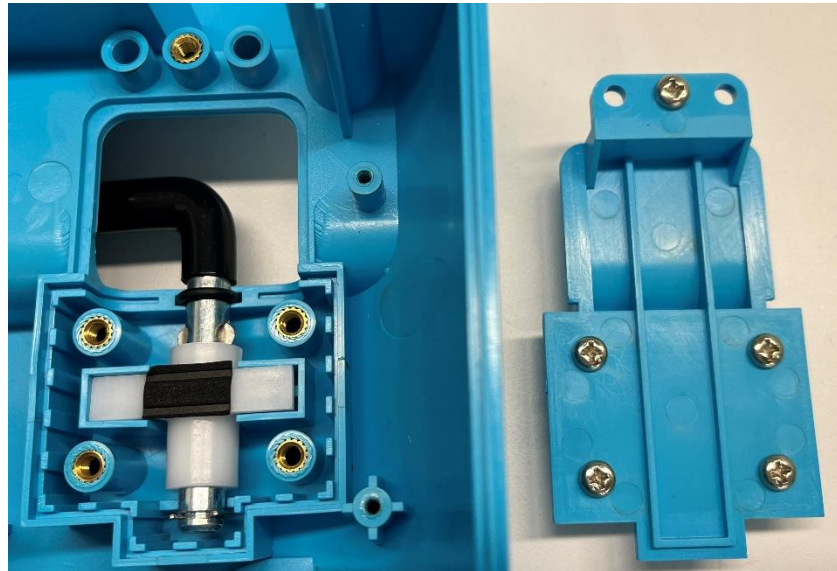


Fig: 20

## L. Replacing the Bottom Case

1. Follow the steps in “Replacing the Top Case” to remove the top case.
2. Follow the steps in “Replacing the Power PCBA set” to remove the Power PCBA from the bottom case.
3. Follow the steps in “Replacing the Power module set” to remove the Power module from the bottom case.
4. Follow the steps in “Replacing the Compressor” to remove the Compressor from the bottom case.
5. Follow the steps in “Replacing the Air valve set” to remove the air valve from the bottom case.
6. Follow the steps in “Replacing the Silicon tube set” to remove the silicon tube from the bottom case.
7. Follow the steps in “Replacing the Hall sensor PCBA” to remove the sensor PCBA from the side case.
8. Follow the steps in “Replacing the Side Panel Set” to remove the side panel set from the bottom case.
9. Follow the steps in “Replacing the Hanging Hooks” to remove the Hanging Hooks from the bottom case.
10. Using a small, thin, flat-bladed knife, lift the corner of the information sticker (Fig: 21) on the bottom case and pull it away gently.
11. Reverse the procedure to install the new bottom case, ensuring that the information sticker (Fig: 21) is replaced securely using super glue if required and that the wire and silicone tube routing is exactly as found.








Fig: 21

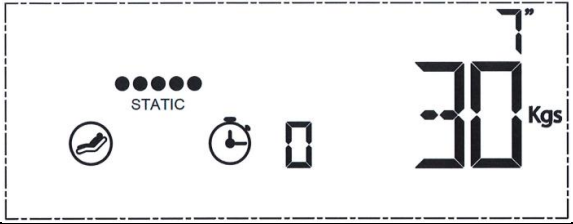



# Testing

## A. Introduction

The procedures described in this section of the manual can be carried out by any trained member of staff.

## B. Function test

Stage	Steps
<p>Power On</p>	<ul style="list-style-type: none"> <li>• Plug the power cable into the wall socket.</li> <li>• Switch the wall socket on.</li> <li>• Press the Power button.</li> <li>• The power button light will flash and then wait for 10 second the lights bar on the control panel will light on.</li> </ul>
<p>Dynamic</p> 	<ul style="list-style-type: none"> <li>• Match the air mattress (7" or 9").</li> <li>• Press the power button.</li> <li>• Press the cycle time button to setting cycle.</li> <li>• Wait 10 min after setting to check the cells will continuously alternate in an A-B-A-B pattern.</li> </ul>
<p>Weight of patient(Kg)</p>  	<ul style="list-style-type: none"> <li>• Match the air mattress (7" or 9").</li> <li>• Press the power button.</li> <li>• Press the weight(Kg) button to conform settings.</li> <li>• Check the number(Kg) can be setting.</li> </ul>
<p>Cycle Time</p> 	<ul style="list-style-type: none"> <li>• Match the air mattress (7" or 9").</li> <li>• Press the power button.</li> <li>• Press the cycle time button to select 5、10、15 settings.</li> <li>• Wait 15 min after setting to check the cells will continuously alternate in an A-B-A-B pattern.</li> </ul>
<p>Static Settings</p> 	<ul style="list-style-type: none"> <li>• Match the air mattress (7" or 9").</li> <li>• Press the power button.</li> <li>• Press the Mode button to setting static.</li> </ul>

<p>Panel Unlock</p>	<ul style="list-style-type: none"> <li>• Match the air mattress (7" or 9").</li> <li>• Press the power button.</li> <li>• Press the cycle time to setting 15 min.</li> <li>• When there is no operation after 2 minutes, system will automatically lock the control panel.</li> <li>• Press and hold the Panel Unlock button for 3 second to release it from locking.</li> </ul>
<p>Upright Comfort</p> 	<ul style="list-style-type: none"> <li>• Match the air mattress.</li> <li>• Press the power button</li> </ul> <p>Press Upright comfort button, then the led will light and the model pattern will on the screen.</p>
<p>Max Inflation Settings</p> 	<ul style="list-style-type: none"> <li>• Match the air mattress.</li> <li>• Press the power button</li> <li>• Press Max Inflate button, then the led will light and the model pattern will on the screen.</li> </ul>
<p>Pulsate Settings</p> 	<ul style="list-style-type: none"> <li>• Match the air mattress.</li> <li>• Press the power button</li> </ul> <p>Press Pulsate button the led will light and the model pattern will on the screen.</p>
<p>Variable Dynamic Settings</p> 	<ul style="list-style-type: none"> <li>• Match the air mattress.</li> <li>• Press the power button</li> </ul> <p>Press Variable Dynamic button the led will light and the model pattern will on the screen.</p>
<p>Alarm</p>	<ul style="list-style-type: none"> <li>• Match the air mattress.</li> <li>• Pull the power cable from the wall socket during operation</li> <li>• The alarm will sound and the power light will go red</li> <li>• Press the Power button to silence the alarm</li> <li>• Replace the power cable into the wall socket to return the power unit to the initial stage.</li> </ul>
<p>Power Off</p>	<ul style="list-style-type: none"> <li>• Press the Power button to switch the power unit off</li> </ul>

## Troubleshooting

### A. Introduction

The procedures described in Troubleshooting that are marked Level 2 must only be carried out by manufacture-authorized service personnel. All other procedures in described in Troubleshooting can be carried out by any trained maintenance personnel.

If your system cannot be repaired using the instructions in the Level 1 sections of this manual and you are not a manufacture-authorized service person, please contact Carilex Medical Inc regarding repairs.

## B. Power Unit

No Lights/ No LCD pattern on Power Unit	No Airflow from Power Unit	Excessive Noise from Power Unit	Excessive Vibration from Power Unit	Troubleshooting Guidelines
★	★			<ul style="list-style-type: none"> <li>• Check that the wall socket is working</li> <li>• Check that the power unit’s rocker switch is on</li> <li>• Check that the power cable is plugged into the wall socket</li> <li>• Check that all internal wires are connected and not broken</li> </ul>
★				<ul style="list-style-type: none"> <li>• Solution: Change the control PCBA for a new one and check its function using “B: Function Test”</li> <li>• Solution: Change the power PCBA for a new one and check its function using “B: Function Test”</li> <li>• Solution: Change the power module for a new one and check its function using “B: Function Test”</li> </ul>
	★			<ul style="list-style-type: none"> <li>• Check the CPC of air outlet for blockage.</li> <li>• Check that all internal black tubes are connected and not punctured. Solution: Change the power PCBA set for a new one and check its function using “B: Function Test”</li> <li>• Check that the air valve turns and stops. Solution: Change the air valve set for a new one and check its function using “B: Function Test”</li> <li>• Check the compressor isn’t working. Solution: Change the air valve set for a new one and check its function using “B: Function Test”</li> </ul>
		★	★	<ul style="list-style-type: none"> <li>• Check that Foam is correctly mounted in the top case.</li> <li>• Check that the power module set and compressor set is correctly mounted in the bottom case. Solution: Re-screw or Changing the power module /compressor for a new one and check its function using “B: Function Test”</li> <li>• Check the air valve motor for noise when it is turning. Solution: Changing the air valve set for a new one and check its function using “B: Function Test”</li> </ul>

 **ENSURE THAT THE POWER SUPPLY IS NOT CONNECTED TO THE POWER UNIT BEFORE OPENING THE POWER UNIT CASE  
ENSURE THAT THE POWER UNIT CASE IS CLOSED AND SCREWED TOGETHER BEFORE CONNECTING THE POWER SUPPLY**





**Product Service Record**

F101.04

General Information	
Date:	
Service Technician:	
Company:	
Location:	
Product Served:	
Serial Number:	
Device Article Number:	
Invoice Number:	
In Warranty:	Yes / No
General Problems Description:	

Parts Replaced or Repaired	Problems Identified	Serial Number (Record if applicable)	Function Test
		Old: New:	Follow Service Manual: NO. _____ Result: <input type="checkbox"/> PASS <input type="checkbox"/> NG
		Old: New:	
		Old: New:	
		Old: New:	

For Carilex QA Division use only: 類別： A: 硬體設計類 B: 軟體設計類 C: 機構設計類 D: 製造品質  
E: 檢驗品質 F: 供應商品質 G: 其他

是否建議開立 ECR No.  Yes, ECR/ECN# \_\_\_\_\_

是否建議開立 Customer Complain

No(Consumables/ User error/ others \_\_\_\_\_).

Yes(Abnormal function/ Volume of abnormal quality/ others \_\_\_\_\_), CC NO. \_\_\_\_\_

For Carilex Sales Div. use only: (已經超過保固期之維修費用請打 D/N 收款, 請在此記錄 D/N#)

Device sent back to customer on \_\_\_\_\_ via \_\_\_\_\_  
(表格與 D.C.C 發行之最新版本相符)