

**COMeN
SCD600
Sequential
Compression
System**



COMeN SCD600 Sequential Compression System Instruction Manual

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COMeN SCD600 Sequential Compression System



Product Information

Specifications

- **Product Name:** Sequential Compression System
- **Model No.:** SCD600
- **Manufacturer:** Shenzhen Comen Medical Instruments Co., Ltd.

Product Usage Instructions

- The SCD600 Sequential Compression System consists of various components including a touch screen, panel label, front shell, silicone button, LCD screen, control boards, pressure monitoring components, hoses, valves, sensors, and power-related accessories.
- If you encounter any issues with the device, refer to the troubleshooting section in the manual for guidance on identifying and resolving common problems.
- When necessary, follow the instructions provided in this section to safely remove the rear shell of the device for maintenance or servicing purposes.
- This section details the various modules present in the SCD600 system, helping users understand the internal components and their functions.
- Learn about potential faults that may occur with the device and how to effectively service and address these issues to maintain optimal performance.
- Ensure safety while using the Sequential Compression System by adhering to the safety guidelines and precautions outlined in this chapter to prevent accidents or mishandling.

FAQ

- **Q:** How do I contact Shenzhen Comen Medical Instruments Co., Ltd. for support?
- **A:** You can reach out to Comen via the provided contact information in the manual, including phone numbers, addresses, and service hotlines.

SCD600 Sequential Compression System [Service Manual]

Revision History			
Date	Prepared by	Version	Description
10/15/2019	Weiqun LI	V1.0	

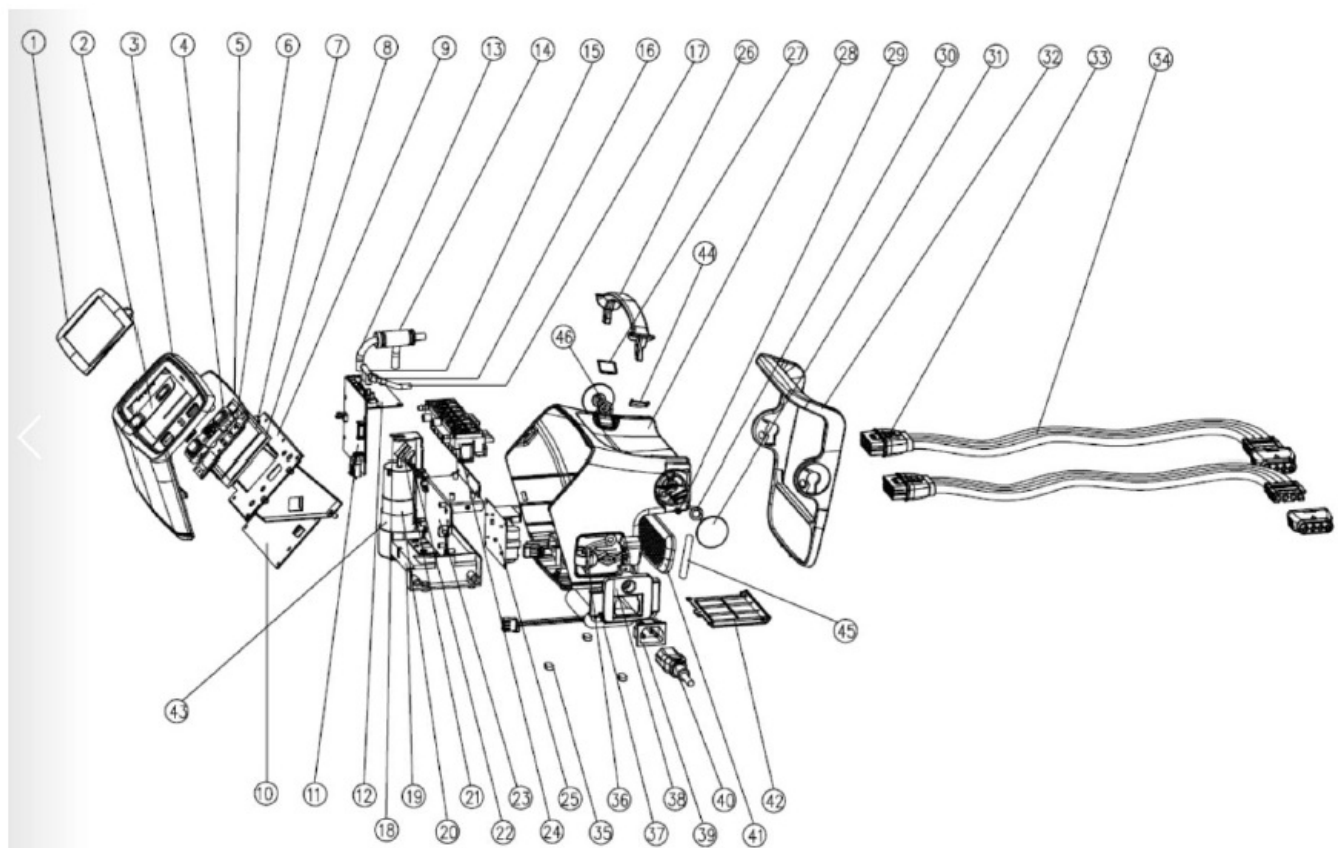
Copyright

- Shenzhen Comen Medical Instruments Co., Ltd.
- Version: V1.0
- Product Name: Sequential Compression System
- Model No.: SCD600

Statement

- Shenzhen Comen Medical Instruments Co., Ltd (hereinafter referred to as “Comen” or “Comen Company”) holds the copyright of this unpublished Manual and has the right to treat this Manual as a confidential document. This Manual is provided for the maintenance of the Comen antithrombotic pressure pump only. Its content shall not be disclosed to any other person.
- The contents contained in the Manual may be changed without notice.
- This manual only applies to the SCD600 product manufactured by Comen.

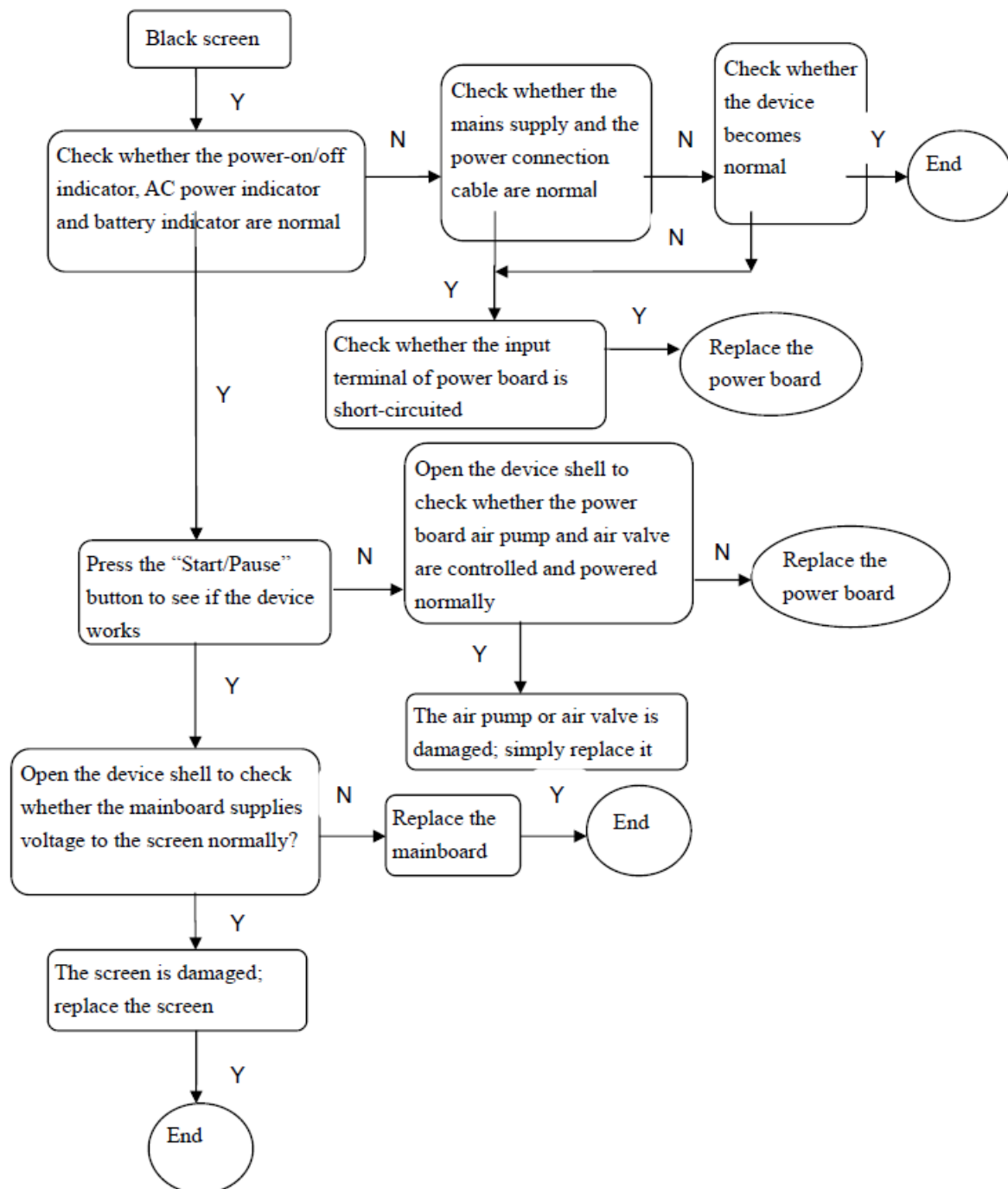
Profile of Device



1	SCD600 touchscreen (silkscreen)		31	Hook cap
2	SCD600 panel label (silkscreen)		32	SCD600 hook
3	SCD600 front shell (silkscreen)		33	SCD600 adapter air tube
4	SCD600 silicone button		34	Air tube
5	C100A front-rear shell sealing strip		35	SCD600 foot pad
6		SCD600 button board	36	C20_9G45 AC power input cable
7	Screen cushioning EVA		37	Rechargeable lithium-ion battery
8	4.3" color LCD screen		38	SCD600 side panel (silkscreen)
9	LCD support component		39	Power socket
10	SCD600_main control board		40	Power cord
11	SCD600_DC power board		41	SCD600 hook protection pad
12	SCD600_pressure monitoring board		42	SCD600 battery cover
13	Precision PU hose		43	SCD600 air pump wrapping silicone
14	One-way valve		44	Handle seal ring 1
15	SCD600 silicone sensor joint		45	Rear shell protection pad (long)
16	Throttle L-joint		46	Left-handed torsional spring of handle
17	BP catheter			
18	SCD600 pressure pump/air pump support compressing piece			
19	SCD600 side panel fixing support			
20	SCD600 air pump			

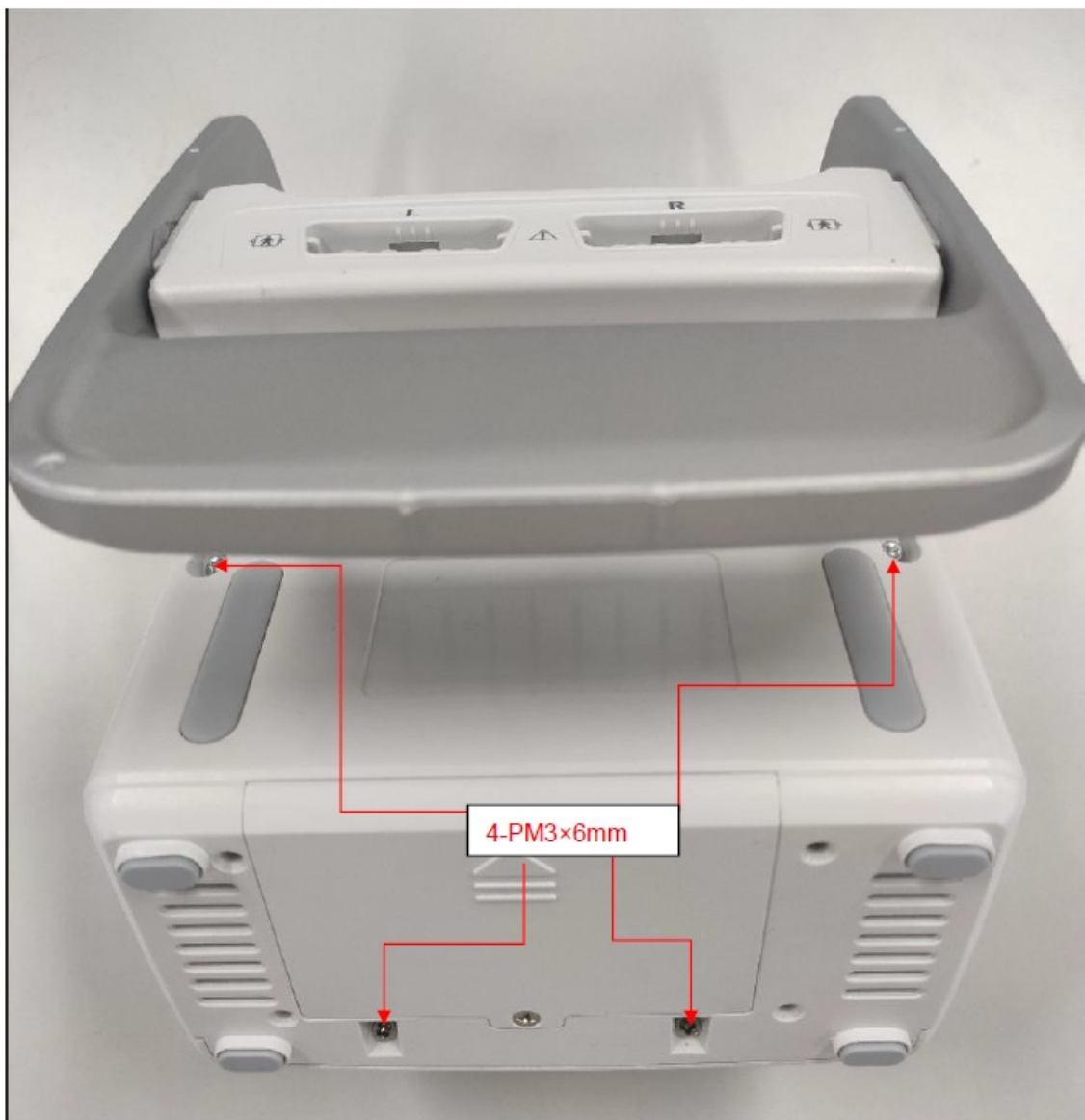
21	Air pump EVA		
22	SCD600 DC bonding jumper		
23	SCD600 DC board fixing support		
24	SCD600 air valve component		
25	SCD600 AC power board		
26	SCD600 handle		
27	Handle seal ring 2		
28	SCD600 rear shell (silkscreen)		
29	M3*6 hex socket screw		
30	Right-handed torsional spring of handle		

Troubleshooting



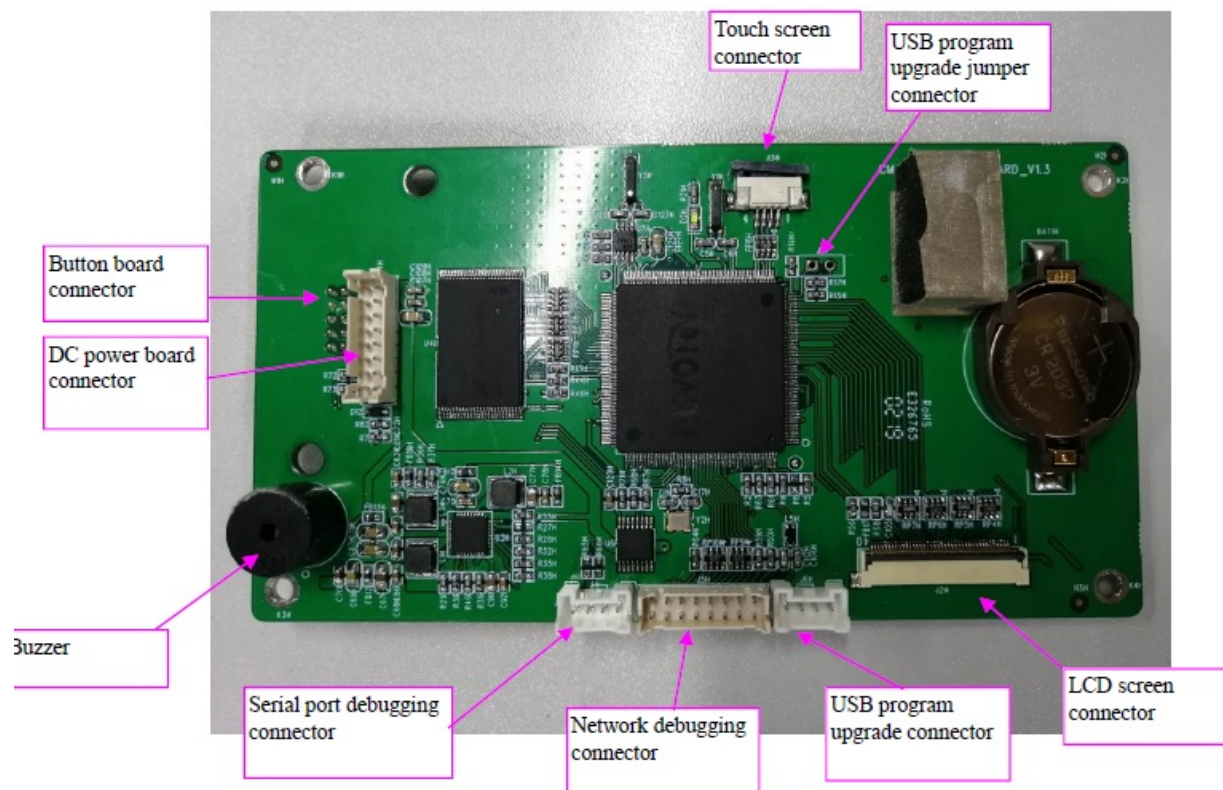
Removal of Rear Shell

1. Tightly compress the hook;
2. Use an electric screwdriver/screwdriver to remove the 4pcs of PM3×6mm screw in the rear shell, as shown in the figure below:



Main Control Board

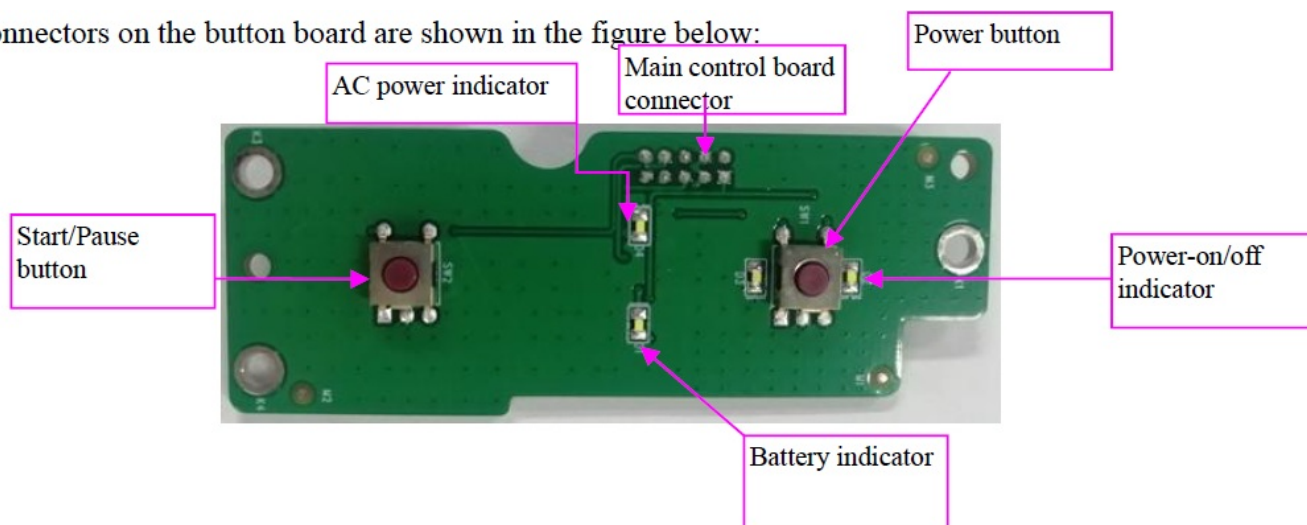
- Connectors on the main control board are shown in the figure below:



Button Board

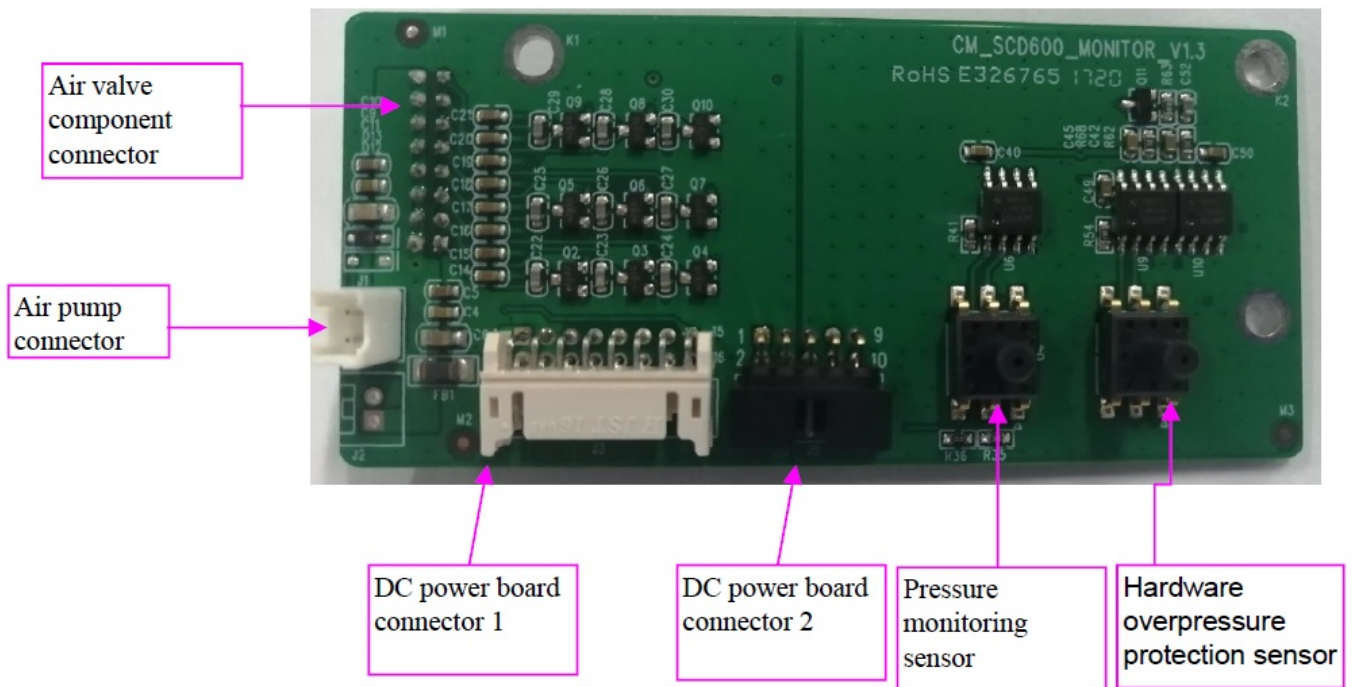
- Connectors on the button board are shown in the figure below:

Connectors on the button board are shown in the figure below:



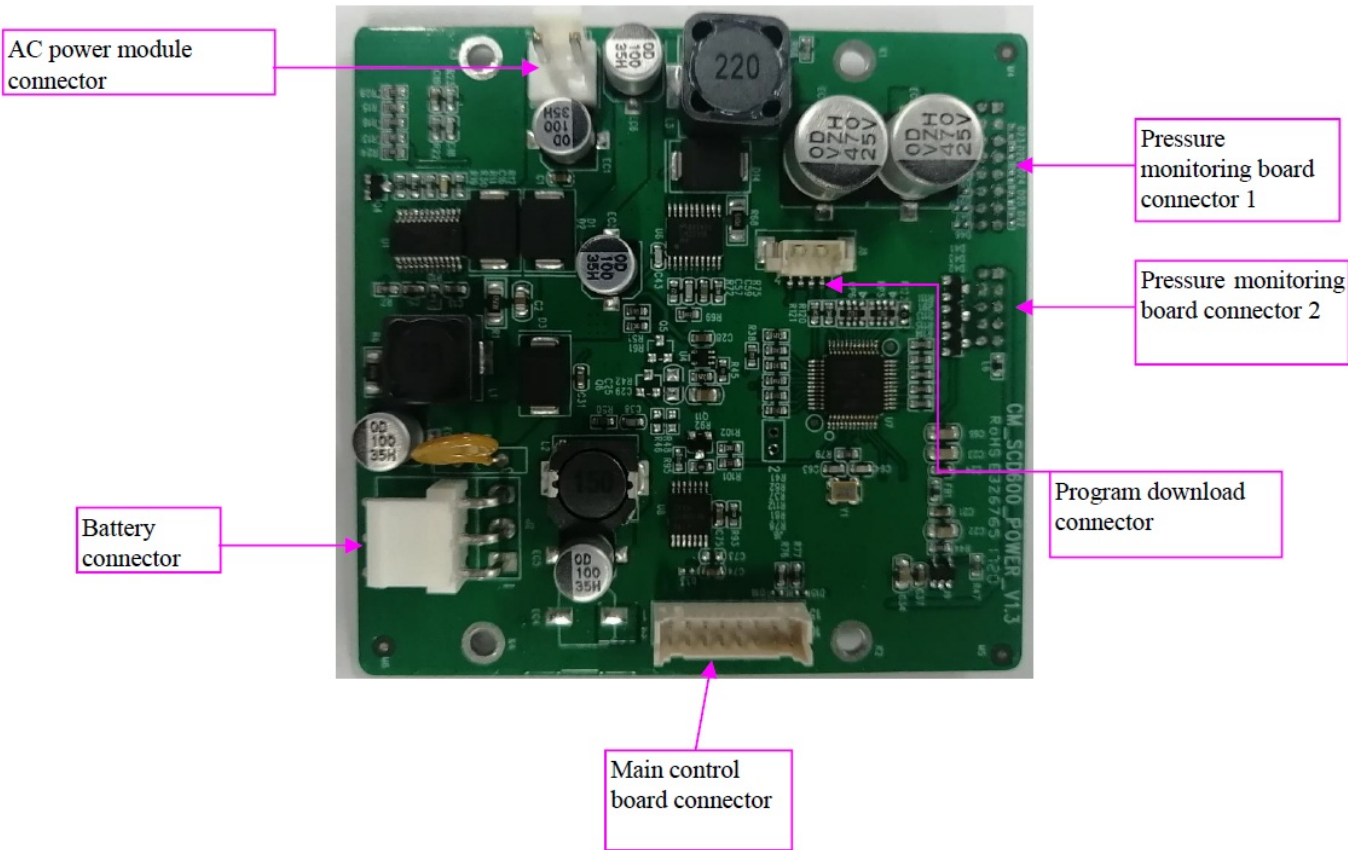
Pressure Monitoring Board

- Connectors on the pressure monitoring board are shown in the figure below:



Power Board

- Connectors on the power board are shown in the figure below:



Faults and Servicing

Problems of LCD Display

WHITE SCREEN

1. First, check whether there is any problem with the internal wiring, such as wrong plugging, missing plugging, defective wire or loose wire. If the wire is defective, it should be replaced.
2. Check whether there is a problem with the mainboard, such as the quality problem or program failure of the mainboard. If it is the quality problem of the mainboard, replace it; if it is a program failure, reprogramming shall proceed.
3. If it is the quality problem of the LCD screen, replace the LCD screen.
4. The voltage of the power board is abnormal; as a result, the mainboard cannot work normally, causing a white screen. Use a multimeter to check whether the 5V output of the power board is normal.

BLACK SCREEN

1. The LCD screen has some quality problems; replace the screen.
2. The wire connecting the power board with the inverter is not put through or the inverter has some problem; check item by item and carry out replacement.
3. The problem of the power board:

First, properly connect the external power supply and power on the device:

If the 12V voltage is normal and inflation is possible after pressing the BP button, the problem may be caused by the following:

1. The wire connecting the power board with the inverter is not put through.
2. The inverter malfunctions.
3. The wire connecting the inverter with the screen is not put through or is not properly inserted.
4. The tube of LCD screen is broken or burnt out.

BLURRED SCREEN

If there is a problem with the screen, it can cause the following phenomena:

1. One or more bright vertical lines appear on the surface of the screen.
2. One or more bright horizontal lines appear on the surface of the screen.
3. One or more black spots appear on the surface of the screen.
4. Numerous snowflake-like bright spots appear on the surface of the screen.
5. There is white political grating when watching from the side corner of the screen.
6. The screen has water ripple interference.

If there is a problem with the LCD cable or the mainboard, it can cause the following blurred-screen phenomena:

1. The font displayed on the screen will flash.
2. There is irregular line interference on the screen.
3. The displaying of the screen is abnormal.
4. The display color of the screen is distorted.

Pneumatic Therapy Part

Inflation failure

- After pressing the Start/Pause button, the screen displays the therapy interface but does not display the pressure value. This has nothing to do with the accessory but is related to the control circuit and power circuit between the pressure monitoring board and power board modules:
- Check whether the pressure monitoring board is normal.
- Check whether the power board is normal.
- Check whether the pressure monitoring board is connected to the power board normally (whether the connecting wire is connected wrongly or loose).
- Check whether the air guide extension tube is bent or broken.
- Check the air valve and air pump to see if any problem exists (if a “click” sound is heard at the beginning of therapy, it indicates the gas valve is in good condition).

There is no response after pressing the Start/Pause button:

- Check whether the connecting wires between the button board and the mainboard, between the mainboard and the power button and between the power board and the pressure monitoring board are normal (whether the connecting wires are connected wrongly or loose).
- If the Power button works and only the Start/Pause button does not work, the Start/Pause button may be damaged.
- The power board may have some problems.
- The pressure monitoring board may have some problems.

Repeated inflation

1. Check whether air leakage exists in the accessory
 - Check whether air leakage exists in the compression sleeve and the air guide extension tube.
 - Check whether the air guide extension tube is tightly connected to the accessory.
2. Check whether the internal gas circuit is complete; the phenomenon is that the value is displayed but is not stable during inflation, and it can be seen that the value declines.
3. Occasionally repeated inflation may be caused by the fact that the signals collected are inaccurate or that the measurement range is beyond the first inflation range. This is a normal phenomenon.
4. Check whether the pressure monitoring board has any problem.

No value display

1. If the measured value exceeds 300mmHg, it is possible that the value is not displayed.
2. It is caused by the fault of the pressure monitoring board.

Inflation problem

1. Check whether the air guide extension tube is inserted.
2. Check whether the internal gas circuit is properly connected.
3. The compression sleeve has large-area air leakage; at this moment, the value displayed is very small.

The System High-Pressure prompt is given as soon as inflation is performed

1. Check the compression sleeve to see if the air guide tube and the air guide extension tube in the compression sleeve are pressed.
2. The pressure monitoring board may have some problems;
3. The air valve component may have some problems.

Power Part

- The device cannot be turned on, the screen is black and the power indicator does not turn on.
- The screen is dark or abnormal, or the device is powered on/off automatically.

Common causes of the above problems:

1. The power cord is damaged; replace the power cord.
2. The battery has run out; charge the battery in time, or replace the battery if it is damaged.
3. The power board has some quality problems; replace the power board or any damaged component.
4. The Power button has some problems; replace the button board.

Power indicator

1. The power-on/off indicator does not turn on
 - Check whether the AC power cord and the battery are connected normally.
2. Check whether the connection between the button board and the mainboard and between the mainboard and the power board is normal.
3. The button board may have some problems.
4. The power board may have some problems.
 - The battery indicator does not turn on
 - After inserting the AC power cord for charging, the battery indicator does not turn on
 - Check whether the battery is connected normally or whether the battery is damaged.
 - The power board may have some problems.
 - Check whether the connection between the button board and the mainboard and between the mainboard and the power board is normal.
 - The button board may have some problems.

After disconnecting the AC power cord so that the device is powered by the battery, the battery indicator does not turn on

- Check whether the battery is connected normally or whether the battery is damaged.
- Check whether the battery has run out.
- The power board may have some problems.
- Check whether the connection between the button board and the mainboard and between the mainboard and the power board is normal.
- The button board may have some problems.

The AC power indicator does not turn on

1. Check whether the AC power cord is connected normally or is damaged.
2. The power board may have some problems.

All the three indicators do not turn on:

1. The device can work normally; the indicators or the power board have some problems.
2. The device cannot work.

Other Parts

Buzzer

1. The buzzer or the main control board has some problems, such as abnormal sounds (e.g., cracking sound, scream or no sound).
2. If the buzzer does not produce any sound, the possible cause is poor contact or come-off of the buzzer connection.

Buttons

1. The buttons malfunction.
 - The button board has some problems.
 - The flat cable between the button board and the mainboard is in poor contact.
2. The ineffectiveness of the buttons could be caused by the problem of the power board.

Safety and Precautions

1. If any sign of functional failure of the device is found or there is any error message, it is not allowed to use the device to treat a patient. Please contact a service engineer from Comen or a biomedical engineer of your hospital.
2. This device can be serviced only by qualified service personnel with Comen's authorization.
3. The service personnel must be familiar with the power indicators, the polarity marks and the requirements of our products for earth wire.
4. The service personnel, especially those who have to install or repair the device in ICU, CUU or OR, must be familiar with the hospital's working rules.
5. The service personnel should be capable of protecting themselves, thus avoiding the risk of infection or contamination during construction or servicing.
6. The service personnel should properly dispose of any replaced board, device and accessory, thus avoiding the risk of infection or contamination.
7. During field servicing, the service personnel should be capable of correctly placing all removed parts and screws and keeping them in order.
8. The service personnel should guarantee that the tools in their own tool kit are complete and placed in order.
9. The service personnel should confirm that the package of any part carried is in good condition before servicing;


if the package is broken or if the part shows any sign of damage, do not use the part.

10. When servicing work is finished, please clean up the field before leaving.

Contact Information

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Documents / Resources

	COMeN SCD600 Sequential Compression System [pdf] Instruction Manual SCD600, SCD600 Sequential Compression System, SCD600 Compression System, Sequential Compression System, Sequential Compression, Compression System, Compression
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References

- [User Manual](#)

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