The use of manual pneumatic compression is contraindicated with a compression garment used to measure edema. Avoid this on the limbs to avoid contact with the skin and subcutaneous area.

The SCD EXPRESS Compression System is designed to apply intermittent pneumatic compression to increase venous blood flow.

**Indications**

- Deep vein thrombosis
- Edema - chronic
- Venous stasis
- Venous ulcers

**Contraindications**

- Pregnancy
- Deep vein thrombosis

**Foot Compression**

The use of the SCD EXPRESS Compression System with these conditions is indicated:

1. Deep vein thrombosis
2. Edema - chronic
3. Venous stasis
4. Venous ulcers

**Leg Compression**

Block and void tachypnea of chronic disease. The next compression is indicated:

- The SCD EXPRESS Compression System is designed to apply intermittent pneumatic compression to increase venous blood flow.

---

WARNING: Do not use the SCD EXPRESS Compression System as a diagnostic tool in the setting of tachypnea, hypotension, or other signs of acute onset of illness.

1. Read all instructions before use. Follow the operator's manual and use of manual pneumatic compression is contraindicated with a compression garment used to measure edema. Avoid this on the limbs to avoid contact with the skin and subcutaneous area.

---

**Caution**

- Avoid the use of manual pneumatic compression on the limbs to avoid contact with the skin and subcutaneous area.
- Follow the operator's manual and use of manual pneumatic compression is contraindicated with a compression garment used to measure edema. Avoid this on the limbs to avoid contact with the skin and subcutaneous area.

---

**Foot Compression**

1. Any local leg condition in which the pressure may affect skin (e.g., dermatitis, epidermolysis bullosa, gangrene, or other)

---

**Leg Compression**

1. Any local leg condition in which the pressure may affect skin (e.g., dermatitis, epidermolysis bullosa, gangrene, or other)

---

**intradural**/KENDALL...
**Note:** If a parameter is set to a value above the lower limit on the display, the system will automatically set the parameter back to the lower limit. The system will alert the operator if the parameter is set to a value above the upper limit. The operator must then manually adjust the parameter back to the lower limit if the condition is resolved.

**Maintenance & Cleaning:**

- To clean the system, unplug the power cord and wipe the exterior of the system with a damp cloth.
- Do not use harsh chemicals or abrasive cleaners.
- Regular cleaning and maintenance will extend the life of the system.

**Troubleshooting:**

- If the system does not turn on, check the power cord and outlet.
- If the system does not respond to commands, check the network connection and settings.
- If the system is not receiving data, check the sensor connections.

**Technical Support:**

For further assistance, contact our technical support team at 1-800-123-4567.

---

**Section 1 - General Operating Instructions**
Section II - Battery Operation

Note: Removal of the red hook and the can cover does depend on Section VI - Disassembly and Reassembly.

- Portable Controller Configuration

The SCD EXPRESS Compression System is designed to operate normally at the power of 6 Volt battery power without any information. The controller can also be used without the need for a power source. The system can also be used with the SCD EXPRESS Compression System is designed to operate normally at the power of 6 Volt battery power without any information. The controller can also be used without the need for a power source.

Troubleshooting

Further instructions for common application and non-included with the leg sheath and foot pump bag.

- Gamemat Compatibility

The SCD EXPRESS Compression System is designed for use with Gamemat Gamer Racer cases.

Vascular Refill Detection

The pressure setting depends on the type of gamemat. The pressure should be between 10-15 mmHg for foam cases.

Pressure Settings

- 1. Accessory Cables. The controller automatically applies operating parameters to maintain as pressure.
- 2. The Gamemat introduces the pressure equivalence to the controller parameters to maintain as pressure.
- 3. After all gamemats are removed, the controller applies pressure to the gamemat and then the gamemat is identical to the controller parameters to maintain as pressure.
Note: If operation time on battery power is extremely short, the battery should be renewed for service or replacement.

### Charging the Battery

<table>
<thead>
<tr>
<th>Status</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery Status 1</td>
<td>0-100% charge</td>
</tr>
<tr>
<td>Battery Status 2</td>
<td>50-100% charge</td>
</tr>
<tr>
<td>Battery Status 3</td>
<td>75-100% charge</td>
</tr>
</tbody>
</table>

#### Table 1: Battery Status

<table>
<thead>
<tr>
<th>Status</th>
<th>Charge Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery Status 1</td>
<td>0-25% charge</td>
</tr>
<tr>
<td>Battery Status 2</td>
<td>25-50% charge</td>
</tr>
<tr>
<td>Battery Status 3</td>
<td>50-75% charge</td>
</tr>
</tbody>
</table>

#### Table 2: Battery Status

<table>
<thead>
<tr>
<th>Status</th>
<th>Charge Level</th>
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</thead>
<tbody>
<tr>
<td>Battery Status 1</td>
<td>25-50% charge</td>
</tr>
<tr>
<td>Battery Status 2</td>
<td>50-75% charge</td>
</tr>
<tr>
<td>Battery Status 3</td>
<td>75-100% charge</td>
</tr>
</tbody>
</table>

### Battery Indicator Status:

- **Battery Status 1**: 0-25% charge
- **Battery Status 2**: 25-50% charge
- **Battery Status 3**: 50-75% charge

The battery pack for the SCD EXPRESS Compression System is optional. To order a new or replacement battery, please contact your local customer service.

### Note:

To use the battery electric connection, the battery pack of a honey pack (not provided) must be installed in the controller to prevent the user from having access to the system. The battery pack, or a honey pack (if so equipped), must be installed in the controller to prevent the user from having access.
<table>
<thead>
<tr>
<th>Fault Code</th>
<th>Description</th>
<th>Fault Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>6</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>7</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>8</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

Troubleshooting:
- Check the controller and its connections.
- Ensure the pressure is within the specified range.
- If the pressure is high or low, adjust the settings as necessary.
- Check the sensor connections for any loose or faulty connections.
- If the sensor is not responding, check its connections and settings.
- If the controller is not responding, check its connections and settings.
- If the system is not starting, check the power supply and breakers.

Battery Indicator:
- Low Battery Alarm
**Introduction**

This service manual is intended for use in service and repair of the EXPRESS Logo System. It is not to be used as a reference to the EXPRESS Logo System's manual. The EXPRESS Logo System Service Manual is covered in the sections that follow. All other maintenance must be performed by the appropriate hardware service and maintenance personnel.

**Section IV - Service and Maintenance**

<table>
<thead>
<tr>
<th>Troubleshooting</th>
<th>Description</th>
<th>Fault Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professional approach</td>
<td>- Have the controller serviced by a professional.</td>
<td>- Properly maintained</td>
</tr>
<tr>
<td>- Properly maintained</td>
<td>- Verify that the connection is made and secure.</td>
<td>- Cool and secure</td>
</tr>
<tr>
<td>- Cool and secure</td>
<td>- Turn the controller off before it is not obstructed.</td>
<td>- The controller is replaced or part is not obstructed</td>
</tr>
<tr>
<td>- The controller is replaced or part is not obstructed</td>
<td>- Make sure the controller is the alarm circuit statement.</td>
<td>- The controller is replaced or part is not obstructed</td>
</tr>
</tbody>
</table>

*Battery Error*

Error Indication: 11

*Temperature Error*

Error Indication: 10

*Fault Indication: 5*

Error Indication: 9
### Suggested Preventative Maintenance Schedule

<table>
<thead>
<tr>
<th>Task</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Function Test (Reset Mode: F)</td>
<td></td>
</tr>
<tr>
<td>Leak Test (Reset Mode: G)</td>
<td></td>
</tr>
<tr>
<td>Electrical Safety Tests</td>
<td></td>
</tr>
<tr>
<td>Verify Function Calculation (Reset Mode: D)</td>
<td></td>
</tr>
<tr>
<td>Inspect and Clean all Sensors</td>
<td>As Required</td>
</tr>
<tr>
<td>Clean Exit Area</td>
<td>Once Per Year</td>
</tr>
</tbody>
</table>

### Electrical Safety

- **Note:** The power supply cord/plug is the electrical supply mains disconnect device.
- **SHOCK HAZARD:** When the unit is removed from the circuit the power source (AC power and/or battery power) must be disconnected.

### Fuse

- **CAUTION:** Replacing the fuse and/or removing the battery pack (see Section IV) before replacing the fuse.

### Fan Screen and Ventilation

- **CAUTION:** Replacing the controller and/or removing the battery pack (see Section IV) before fan screen maintenance.
Test Mode On - Burn-In

1. The sensor will be in the Test Mode, the interior of the sensor will be at 0% humidity. If the humidity is not at 0%, the sensor will not be in the Test Mode.
2. The sensor will be in the Test Mode, the interior of the sensor will be at 0% humidity. If the humidity is not at 0%, the sensor will not be in the Test Mode.
3. The sensor will be in the Test Mode, the interior of the sensor will be at 0% humidity. If the humidity is not at 0%, the sensor will not be in the Test Mode.
4. The sensor will be in the Test Mode, the interior of the sensor will be at 0% humidity. If the humidity is not at 0%, the sensor will not be in the Test Mode.

Note: The sensor will be in the Test Mode, the interior of the sensor will be at 0% humidity. If the humidity is not at 0%, the sensor will not be in the Test Mode.

Section V - Test Methods and Calibration

The sensor is used in the applications where the humidity is required to be read. The sensor is used in the applications where the humidity is required to be read. The sensor is used in the applications where the humidity is required to be read. The sensor is used in the applications where the humidity is required to be read. The sensor is used in the applications where the humidity is required to be read.

Precautionary Operation Description

The sensor is used in the applications where the humidity is required to be read. The sensor is used in the applications where the humidity is required to be read. The sensor is used in the applications where the humidity is required to be read. The sensor is used in the applications where the humidity is required to be read. The sensor is used in the applications where the humidity is required to be read.

Electric/Electronics Description

The sensor is used in the applications where the humidity is required to be read. The sensor is used in the applications where the humidity is required to be read. The sensor is used in the applications where the humidity is required to be read. The sensor is used in the applications where the humidity is required to be read. The sensor is used in the applications where the humidity is required to be read.

Cleaning the Sensor
When the supplied pressure is within the calibration range, then both the LED and the LED indicator will light green.

Note: For each of the calibration verification range, the supplied pressure is taken to the check calibrator range where the LED indicator will remain red.

Always perform test 02 before test 03 to verify the pressure transducer calibration.

Test Mode 04 - Pressure Transducer Calibration Verification

1. Press the first button to begin the test.
2. Press the first button to begin the test.
3. Press the first button to begin the test.
4. Press the first button to begin the test.
5. Press the first button to begin the test.
6. Press the first button to begin the test.
7. Press the first button to begin the test.
8. Press the first button to begin the test.
9. Press the first button to begin the test.
10. Press the first button to begin the test.

Test Mode 03 - General Function Test

1. With nothing plugged into the port on the back of the calibrator, enter test mode. Press the first button to begin the test.
2. Press the first button to begin the test.
3. Press the first button to begin the test.
4. Press the first button to begin the test.
5. Press the first button to begin the test.
6. Press the first button to begin the test.
7. Press the first button to begin the test.
8. Press the first button to begin the test.
9. Press the first button to begin the test.
10. Press the first button to begin the test.

Test Mode 02 - General Function Test

1. With nothing plugged into the port on the back of the calibrator, enter test mode. Press the first button to begin the test.
2. Press the first button to begin the test.
3. Press the first button to begin the test.
4. Press the first button to begin the test.
5. Press the first button to begin the test.
6. Press the first button to begin the test.
7. Press the first button to begin the test.
8. Press the first button to begin the test.
9. Press the first button to begin the test.
10. Press the first button to begin the test.
Test Mode 08 - Manufacturing Test

1. Power up the controller and connect the scan head to the access mode.
2. After the port button is pressed, the port port will be opened and the controller will turn on.
3. After the port port is pressed, the port port will be opened and the controller will turn on.
4. After the port button is pressed, the port port will be opened and the controller will turn on.
5. After the port button is pressed, the port port will be opened and the controller will turn on.
6. After the port button is pressed, the port port will be opened and the controller will turn on.
7. After the port button is pressed, the port port will be opened and the controller will turn on.
8. After the port button is pressed, the port port will be opened and the controller will turn on.
9. After the port button is pressed, the port port will be opened and the controller will turn on.
10. After the port button is pressed, the port port will be opened and the controller will turn on.

Test Mode 07 - Performance Test

1. After the port button is pressed, the port port will be opened and the controller will turn on.
2. After the port button is pressed, the port port will be opened and the controller will turn on.
3. After the port button is pressed, the port port will be opened and the controller will turn on.
4. After the port button is pressed, the port port will be opened and the controller will turn on.
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6. After the port button is pressed, the port port will be opened and the controller will turn on.
7. After the port button is pressed, the port port will be opened and the controller will turn on.
8. After the port button is pressed, the port port will be opened and the controller will turn on.
9. After the port button is pressed, the port port will be opened and the controller will turn on.
10. After the port button is pressed, the port port will be opened and the controller will turn on.

Test Mode 06 - Leak Test

1. After the port button is pressed, the port port will be opened and the controller will turn on.
2. After the port button is pressed, the port port will be opened and the controller will turn on.
3. After the port button is pressed, the port port will be opened and the controller will turn on.
4. After the port button is pressed, the port port will be opened and the controller will turn on.
5. After the port button is pressed, the port port will be opened and the controller will turn on.
6. After the port button is pressed, the port port will be opened and the controller will turn on.
7. After the port button is pressed, the port port will be opened and the controller will turn on.
8. After the port button is pressed, the port port will be opened and the controller will turn on.
9. After the port button is pressed, the port port will be opened and the controller will turn on.
10. After the port button is pressed, the port port will be opened and the controller will turn on.

Test Mode 05 - Self Test

1. After the port button is pressed, the port port will be opened and the controller will turn on.
2. After the port button is pressed, the port port will be opened and the controller will turn on.
3. After the port button is pressed, the port port will be opened and the controller will turn on.
4. After the port button is pressed, the port port will be opened and the controller will turn on.
5. After the port button is pressed, the port port will be opened and the controller will turn on.
6. After the port button is pressed, the port port will be opened and the controller will turn on.
7. After the port button is pressed, the port port will be opened and the controller will turn on.
8. After the port button is pressed, the port port will be opened and the controller will turn on.
9. After the port button is pressed, the port port will be opened and the controller will turn on.
10. After the port button is pressed, the port port will be opened and the controller will turn on.
Power Supply Board (Removal / Installation)

CAUTION: As a grounded step when handling any electrical components.

When removing the power supply board:
- Always turn off the equipment before removing power to the board.
- Open the front cover of the equipment and remove any screws or clips that secure the board to the chassis.
- Disconnect all cables and connectors from the board.
- Gently lift the board up and out of the equipment.
- Place the board on a static-free surface.
- When reinstalling the board, ensure all cables and connectors are securely connected.
- Close the front cover and tighten any screws or clips to secure the board to the chassis.
- Turn on the equipment and check all functions to ensure proper operation.

When replacing the power supply board:
- Follow the above steps in reverse order.
- Check all connections and ensure the board is fully seated before securing it with screws or clips.
- Turn on the equipment and check all functions to ensure proper operation.

Warning: Always make sure the power cord is unplugged and the battery is removed before attempting to perform any installation or removal of components.
Main Controller Board (Removal/Installation)

Installation is the reverse of the removal.

1. Remove the controller board.
2. Disconnect the two multimeter connector cables by pulling them out of the connections on the controller board.
3. The main CPU board is located on the rear cover and is held in place with two screws.
4. Disconnect the fan connector board wiring harness from the power board.
5. The main CPU board has no user-serviceable parts. The service should be made to repair a damaged board. Return to the factory repair or replacement.

**CAUTION:** Use a grounded strip when handling any electronic components.

Fan and Screen (Removal/Installation)

Installation is the reverse of removal.

1. To remove the power board, slide the board out from the rear case.
2. To remove the power board, place the screen in front of the rear case.
3. The power supply board is held in place by clips on the sides of the rear case as well as retaining bracket on the front case.
Section VII - Specifications

SCD EXPRESS Compression System

Transport & Storage

Operation & Service Manual

Shipping Set

Shipping Weight

Shipping Case Dimensions

Shipping Unit

Shoulder Strap

Battery

Power Requirements

Controller Weight

Controller Dimensions:

Power Cord

Audio/Visual Alarms

Power Cord Storage

Bed Hook

Set Pressure

Compression Cycle

Compression Type

Ingress of Water Protection

Mode of Operation

UL Device Classification

Safety Standards

The unit for service, transport and storage have been exceeded. Return
If these suggest that the environmental conditions
Exceed 24°C (75°F)

Included:

Optional set of two individual assemblies

Height: 11.4 inches (29.5 cm)

Weight: 9.6 inches (24.4 cm)

Depth: 9.0 inches (22.9 cm)

Width: 11.6 inches (29.9 cm)

Height: 3.5 lbs (1.6 kg)

Depth: 4.5 inches (11.4 cm)

Height: 7.0 inches (17.8 cm)

Width: 6.2 inches (15.8 cm)

Hosptial Grade Plug

Low Pressure, High Pressure, Internal Electronic Multiplex

Yes

Yes (optional)

Foot Switch: 30 minute

Leg Saver: 45 minute

Decompression time based on age and height

Foot compression: 5 seconds

Leg compression: 11 seconds

Foot Switch: full

Leg Switch: sequential, gradient

Continuous

Net app. avg. Eq. Equivalents

Year of Product Date

Internally Formed Pressure Class I Equipment

UL Classified File # E19931

Built to UL60601-1, CSA C22.2 N40, 601-AMG, EN60601-1, and 60601-1-2 Standards
Contactor Parts List

1. Front Membrane Panel
2. Front Endosure
3. Main Controller Board
4. Valve Manifold Assembly
5. Wire Barrier
6. Compressor Assy
7. Power Supply Board
8. Fuses (set of 2)
9. Muffler
10. Fan
11. Fan Screen
12. Rear Endosure
13. Rubber Feet (set of 2)
14. Battery Pack
15. Power Cord
16. Cond Capture Door
17. Bed Hook

Legend:
- [Diagram Elements]
<table>
<thead>
<tr>
<th>Emission Test</th>
<th>Compliance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electro-Magnetic Environment - Guideline</td>
<td>Class B Group 1</td>
</tr>
<tr>
<td>Radio Disturbance Emissions</td>
<td>Class B Group 1</td>
</tr>
<tr>
<td>Conducted Disturbance Emissions</td>
<td>Class B Group 1</td>
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<tr>
<td>Radiated Disturbance Emissions</td>
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