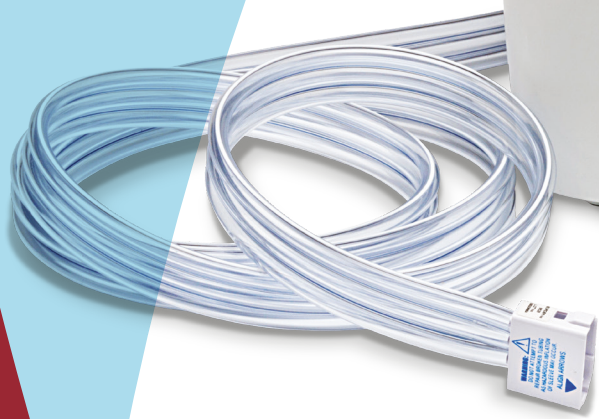


Kendall SCD™ 700 Compression System



# Set up guide

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# Introduction

**The Kendall SCD™ 700 is composed of three separate components:**

1. Controller
2. Garments
3. Tubing that is used to connect the controller and garments



# Measure and fitting

**The garments are available in multiple styles including thigh and knee length or foot cuff.**

- Before applying the garments it's important to measure the patient to identify the appropriate size
- For thigh and knee length sleeves measure the circumference of the patient's thigh or calf respectively at the widest part
- For foot cuffs refer to the shoe size and select medium or large size accordingly
- Refer to the sizing chart to determine the correct size and select the appropriate garments



# Sizing chart

## Thigh length sleeves

Thigh Circumference	Size	Kendall SCD™ Comfort Sleeve	Kendall SCD™ Comfort Sleeve Tear-Away	Kendall SCD™ Express Sleeve	Kendall SCD™ Express Sleeve Tear-Away
< 40.6cm	X-Small	74010	N/A	N/A	NA/
40.6 cm – 55.9 cm	Small	74011	74041	73011	74041
55.9 cm – 71.1 cm	Medium	74012	74042	73012	74042
71.1 cm – 91.4 cm	Large	74013	74013	73013	74043

## Knee length sleeves

Calf Circumference	Size	Kendall SCD™ Comfort Sleeve	Kendall SCD™ Express Sleeve
< 35.6 cm	Small	74021	N/A
35.6 cm – 53.3 cm	Medium	74022	73022
53.3 cm – 66.0 cm	Large	74023	73023
56 cm – 81.5 cm	X-Large	N/A	9790

## Foot cuffs

Women's Shoe Size (U.S.)	Men's Shoe Size (U.S.)	Size	Item Code
9 or smaller	7.5 or smaller	Medium	73032
9.5 or larger	8 or larger	Large	73033

- Open sleeve and place the inside of the sleeve under the patient's leg
- Position the sleeve in accordance with the orientation indicated by the printed arrows
- Beginning with the side without the hook tape, wrap the sleeve around the leg, fastening the Velcro closure tabs beginning at the ankle and working up the leg
- Leave approximately two fingers of space between the deflated sleeve and the patient's leg.
- For foot cuff place foot in the designated area of the foot cuff
- For best fit ensure the heel is aligned with edge of cuff
- Wrap the cuff around the foot and attach the hook securely – the cuff should fit snugly but not too tight



# Set-Up

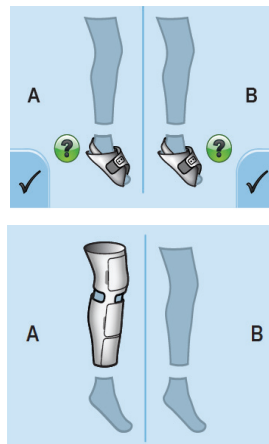
Once the garments have been placed on the patient's leg it's possible to prepare the controller.

- 1 Place the controller on the footboard of the bed
- 2 Plug the tubing into the back of the controller
- 3 Plug the tubes into garments wrapped onto the patient's limbs. Check for kinking and secure attachment

Match the left and right ports, marked A and B respectively, with the left and right limbs of the patient

Plug the power cord into a properly grounded socket. If no AC power is accessible, the controller has a battery that provides up to 8 hours of power

- 4 Press the power on/standby button to begin normal operation. If using leg sleeves, no further user intervention is required. If the controller detects foot cuffs the user must press the A and/or B button(s) to begin normal operation.
- 5 If only one garment is connected to the controller for single-limb compression, then the second port will be disabled and both the leg and foot will be greyed out as in the figure to the side.



## Normal Operation and Pressure Adjustment

- The controller automatically begins the process of applying intermittent compression alternating between limbs or to one if only one garment is applied and automatically adjusts its operating parameters to maintain set pressure
- The pressure setting depends on the type of garment: 45 mm Hg (ankle), 40 mm Hg (calf), 30 mm Hg (thigh) for leg sleeves; 130 mm Hg for foot cuffs

# Compliance Meter and patient detection

The Kendall SCD 700 is equipped with a feature called Compliance Meter that can be used to monitor the amount of time compression therapy is delivered either by shift, day, or during the entire hospital stay. These data can be then reported in the clinical folder.

The Compliance Meter can be accessed by pressing the right arrow button; pressing it again will return the user to normal operating mode.

The Compliance Meter features are shown below.

The top number shows hours and minutes the controller has been operating

Press the "A" button to toggle through shift modes (in 8 hour, 10 hour, 12 hour, 24 hour selections; sum view displays total operating time)

The bottom number shows total number of hours since compliance meter has been reset

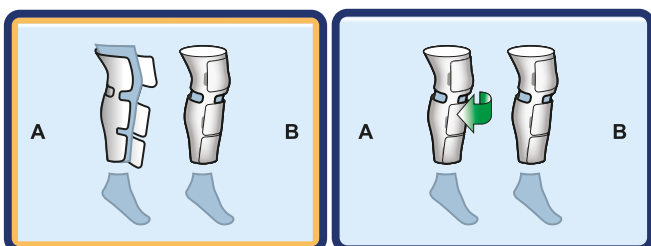
Press this button to access the therapy meter

Press the "B" button to reset compliance meter. Confirm reset by selecting the "A" button. (0 hours, 0 minutes)

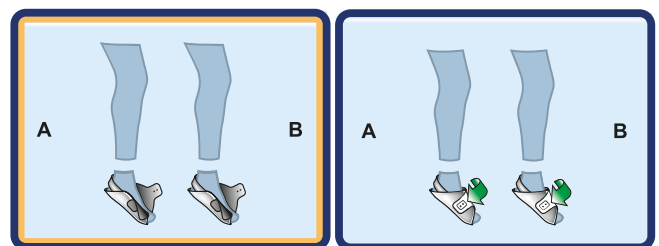
Furthermore the Kendall SCD 700 offers a feature that automatically detects if the compression garments are applied to a patient. The system periodically checks for the presence of a patient. If the system is not able to detect a patient, the controller will display a notification and sound an audible alert.

When the Patient Not Detected alert is present, the controller will continue to perform compression cycles. However, it is still necessary to resolve the Patient Not Detected alert.

If the Patient Not Detected alert shown in the figures below is displayed, turn the controller off, confirm the leg or foot garment placement and securement. Then, turn the controller on.



PATIENT NOT DETECTED ALERT SCREENS (LEG SLEEVES)



PATIENT NOT DETECTED ALERT SCREENS (FOOT CUFFS)

# Error codes

## Error key for Kendall SCD™ 700 series controller

### When the Kendall SCD™ 700 series controller detects a fault condition, it:

- Interrupts the normal operation of the controller
- Deactivates all valves to vent the air from the garment
- Displays a fault code
- Sounds an audible error

Once the error is confirmed, you will be able to reset the device or the device may require service. Some errors will remain active until you turn off the controller or the battery runs out of charge (if operating on battery power).

### The Kendall SCD™ 700 series controller has three error types:

User Resettable, Manual Reset Required, and Service Required

### User Resettable

This type of error allows the user to remedy the issue and resume operation by pressing the A and B button(s) corresponding with the port affected without powering the unit down. For this type of error, a check mark will be shown indicating which port is the area of concern. A yellow triangle indicates a low concern error. A red triangle is indicative of an error related to abnormally high pressure. If the error persists, then the controller requires service.

### Manual Reset Required

An error that can be corrected by the user but requires the device to be powered off and on. If the error persists, then the controller requires service.

### Service Required

Error code is present because of a failed internal component. It cannot be addressed by the user.





**Error Code**

**Error Type**

**Description**

**Troubleshooting**

**Garment Mismatch Error**

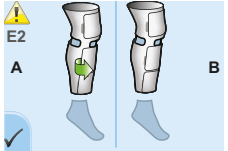


User Resettable

The garment detection procedure has detected a garment configuration (leg or foot flashing green) that does not match the user-selected configuration (leg or foot red).

Press the port configuration button(s) to turn the foot selection on/off depending on what type of garment is connected to the controller. If the proper garment is selected and the problem persists, have the controller serviced by a professional.

**High Pressure (Leg Sleeves)**



User Resettable

Leg sleeve pressure is greater than 47 mm Hg for 10 consecutive cycles; or pressure is above 65 mm Hg for 5 consecutive cycles.

Check for a tight leg sleeve and adjust fit appropriately. Also check for a partially occluded tube.

**High Pressure (Foot Cuffs)**

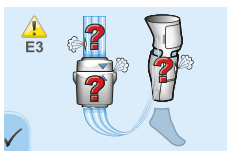


User Resettable

Foot cuff pressure is greater than 135 mm Hg for 10 consecutive cycles or pressure is above 160 mm Hg for 5 consecutive cycles.

Check for a tight foot cuff and adjust fit appropriately. Also check for a partially occluded tube.

**Low Pressure (Leg Sleeves)**

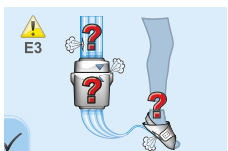


User Resettable

Leg sleeve pressure is less than 43 mm Hg for 10 consecutive cycles.

Check for leaks in the sleeve or the tube connections.

**Low Pressure (Foot Cuffs)**

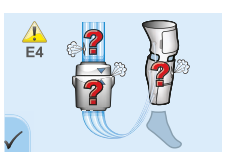


User Resettable

Foot cuff pressure is less than 125 mm Hg after 10 consecutive cycles.

Check for leaks in the cuff or the tube connections.

**Low Pressure (Leg Sleeves)**



User Resettable

Leg sleeve pressure is not between 35–55 mm Hg for 12 consecutive cycles

Check for leaks in the sleeve or the tube connections.

**Low Pressure (Foot Cuffs)**

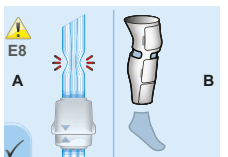


User Resettable

Foot cuff pressure is not between 110 and 150 mm Hg for 12 consecutive cycles.

Check for leaks in the cuff or the tube connections.

**Vent Error**

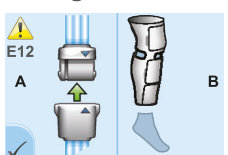


User Resettable

The pressure in a garment is greater than 20 mm Hg at the end of any vent period.

Check tubing for kink or occlusion. Check garment application (too loose or tight).  
Service technician only: Check for kinked internal tubing.

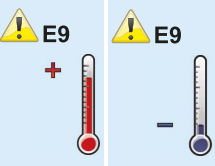
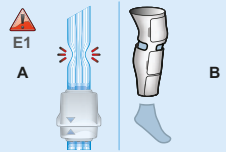
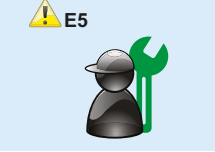
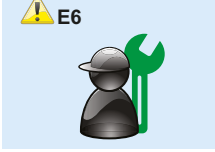
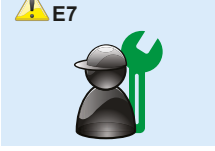
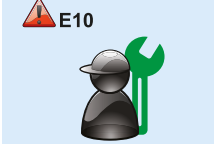
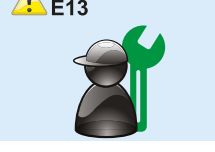
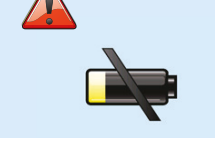
**Tubing Disconnect Error**



User Resettable

Pressure measured in the inflatable garment is below 10 mm Hg for 10 consecutive cycles or no garments are detected during startup.

Check for disconnected tube sets or garments and reconnect.

Error Code	Error Type	Description	Troubleshooting
<p><b>Temperature Error</b></p> 	Manual Reset Required	If the internal case temperature of the controller drops below 5°C (41°F) or exceeds 55°C (131°F).	<p>High temperature: Make sure the controller is not covered by bedding and that the fan port, located near the power cord, is not obstructed.</p> <p>Low temperature: Allow the system to warm to room temperature.</p>
<p><b>System High Pressure Error</b></p> 	Manual Reset Required	System pressure has exceeded 90 mm Hg (leg sleeve) or 180 mm Hg (foot cuff).	Check for kinked tubes or patient interference with the garments, like pressing foot against foot board.
<p><b>Valve Feedback Error</b></p> 	Service Required	If a valve electrically malfunctions, this error will be displayed.	Service technician only: Verify that the valve assembly wires are properly connected and confirm solenoid actuation.
<p><b>Software Error</b></p> 	Service Required	Upon startup and periodically during operation the microprocessor performs diagnostic tests. If a software error is detected, this error will be triggered.	Return to Cardinal Health for service.
<p><b>Compressor Error</b></p> 	Service Required	If the compressor electrically malfunctions, this error will be displayed.	Service technician only: Verify that the compressor wires are properly connected.
<p><b>Battery Error</b></p> 	Service Required	Safe battery operation of the controller cannot be ensured.	Service technician only: Ensure that an unauthorized battery pack has not been used with the controller. Replace pack or return to Cardinal Health for service.
<p><b>Pressure Transducer Error</b></p> 	Service Required	The system could not sense a pressure rise of more than 5 mm Hg during an inflation cycle or during start up.	Service technician only: Check the transducer tube inside the controller and ensure it is neither kinked nor disconnected.
<p><b>Low Battery Error</b></p> 	Recharge Battery	There is less than 15 minutes of battery charge remaining. The pump and valves will continue to operate for as long as there is enough power.	Plug the controller into an AC power outlet.

# Cleaning & Disinfection

## Controller Cleaning

The Kendall SCD™ 700 Compression System complies with the protection IPX3 against the liquids ingress. The controller enclosure can be cleaned with a soft cloth dampened with water or a mild detergent.

To sanitize the device, apply cleaning agents with a cloth or wipe. Avoid excessive spraying, especially in the areas of the connection ports on the back of the device.

The table below provides optional cleaners and their chemical components. The Kendall SCD™ 700 Compression System cannot be effectively sterilized by liquid immersion, autoclaving, or ETO sterilisation, as irreparable damage to the system will occur.



## 700 Series controller cleaners

Chemical component (with approximate concentrations)	Commercial Example
0.5% bleach solution	Dispatch™ <sup>x</sup>
70% Isopropanol alcohol	Generic
0.37% o-Phenylophenol	Precise™ <sup>x</sup>
0.15% dimethyl benzyl Ammonium Chloride, 0.15% dimethyl ethylbenzyl Ammonium Chloride	Spray Nine™ <sup>x</sup>
7.25% hydrogen peroxide, .023% peracetic acid	Sporgon™ <sup>x</sup>
3.4% Glutaraldehyde	Cidex™ <sup>x</sup>
Dodecylbenzene Sulfonate, Coconut Diethanolamide diluted per instructions	Manu-klenz™ <sup>x</sup>

## Tube Set Cleaning

The tube sets can be cleaned with a soft cloth dampened with water or a mild detergent. Do not immerse.

The table below provides optional cleaners and their chemical components.



## Tube set cleaners

Chemical component (with approximate concentrations)	Commercial Example
0.5% bleach solution	Dispatch™ <sup>x</sup>
70% Isopropanol alcohol	Generic
7.25% hydrogen peroxide, .023% peracetic acid	Sporgon™ <sup>x</sup>
Dodecylbenzene Sulfonate, Coconut Diethanolamide diluted per instructions	Manu-klenz™ <sup>x</sup>

**You're busy enough.**  
**Let's keep this simple.**

Please contact your Cardinal Health representative for additional product availability information.

