



# Setup guide

**Kendall SCD™ 700** Compression System

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# Introduction

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

1. Controller
2. Garments
3. Tubing that connects the controller and garments





# Measurement 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™ Express Sleeve	Kendall SCD™ Express Sleeve Tear-Away	Kendall SCD™ Comfort Sleeve	Kendall SCD™ Comfort Sleeve Tear-Away
<16 in.	X-Small	N/A	N/A	74010-	N/A
16 - 22 in.	Small	9545-	9545T	74011	74041
22 - 28 in.	Medium	9530	9530T	74012-	74042
28 - 36 in.	Large	9780-	9780T	74013	74043

## Knee length sleeves

Calf circumference	Size	Kendall SCD™ Express Sleeve	Kendall SCD™ Comfort Sleeve
<14 in.	Small	N/A	74021
14 - 21 in.	Medium	9529-	74022
21 - 26 in.	Large	9789-	74023
22 - 32 in.	X-Large	9790	N/A

## 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	5897
9.5 or larger	8 or larger	Large	5898

## For a proper fit, follow these steps:

- Open the 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 from the ankle up the leg.
- Leave approximately two fingers of space between the deflated sleeve and the patient's leg.
- For the foot cuff, place the foot in the designated area of the foot cuff.
- Be sure the heel is aligned with the edge of the cuff.
- Wrap the cuff around the foot and attach the hook securely. The cuff should be snug but not too tight.



# Setup

Once the garments have been placed on the patient's leg, follow these steps to prepare the controller:

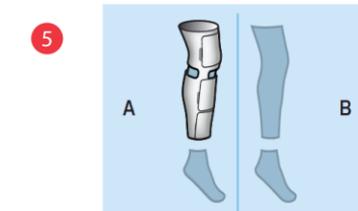
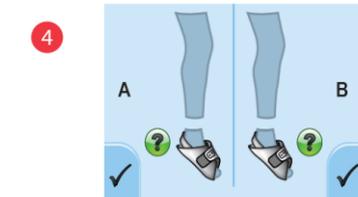
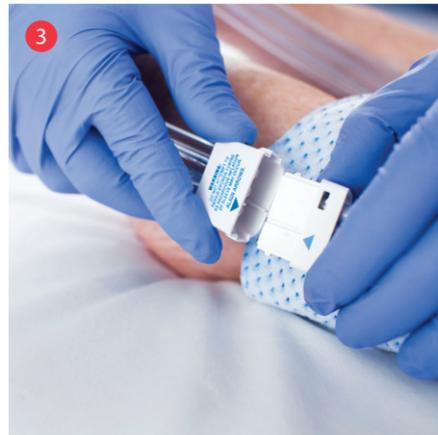
- 1 Place the controller on the footboard of the bed.
- 2 Plug the tubing into the back of the controller.
- 3 Plug the tubes into the garments on the patient's limbs. Check for kinking and be sure tubes are securely attached.

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 intervention is required. If the controller detects foot cuffs, 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, the second port will be disabled and both the leg and foot will be greyed out (see Figure 5).



# Compliance meter and Patient Sensing™ technology

The Kendall SCD™ 700 system is equipped with a compliance meter, a feature that can be used to monitor the length of time compression therapy is delivered either by shift, day, or during the entire hospital stay. This data can be recorded in the clinical folder.

You can access the compliance meter by pressing the right arrow button; pressing it again returns the device to normal operating mode.

## Compliance meter features

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, and 24-hour increments; 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 compliance meter.



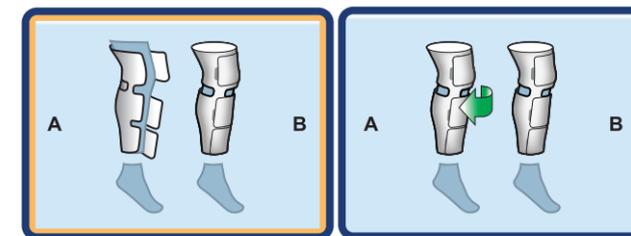
Press the "B" button to reset compliance meter. Confirm reset by selecting the "A" button (0 hours, 0 minutes).

## Patient Sensing™ technology

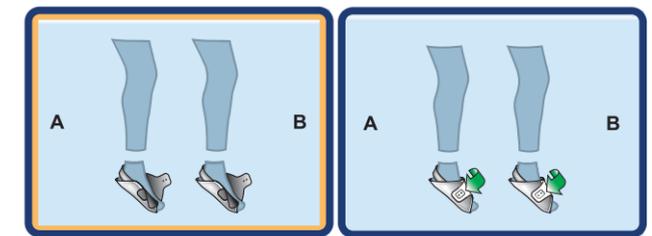
The Kendall SCD™ 700 system also offers a feature that automatically detects if the compression garments are applied to a patient. The system periodically checks for the presence of a patient. If the system is not able to detect a patient, the controller will display a notification and sound an audible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



Patient not detected alert screens (leg sleeves)



Patient not detected alert screens (foot cuffs)

## For normal operation and pressure adjustment:

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



# Error codes

## Error code 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 alert

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

This type of error 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

This error code occurs because of a failed internal component. It cannot be addressed by the user.



## Error code

### Garment mismatch error



### High pressure (Leg sleeves)



### High pressure (Foot cuffs)



### Low pressure (Leg sleeves)



### Low pressure (Foot cuffs)



### Low pressure (Leg sleeves)



### Low pressure (Foot cuffs)



### Vent error

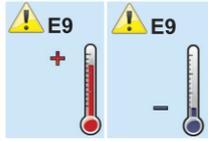
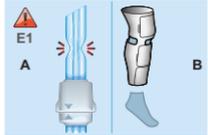


### Tubing disconnect error



## Error type Description

Error type	Description	Troubleshooting
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.
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.
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.
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.
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.
User resettable	Leg sleeve pressure is not between 35 and 55 mm Hg for 12 consecutive cycles.	Check for leaks in the sleeve or the tube connections.
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.
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.
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
<b>Temperature error</b> 	Manual reset required	The internal case temperature of the controller has dropped below 41°F (5°C) or exceeded 131°F (55°C).	<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>
<b>System high pressure error</b> 	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.
<b>Valve feedback error</b> 	Service required	A valve has malfunctioned electrically.	Service technician only: Verify that the valve assembly wires are properly connected and confirm solenoid actuation.
<b>Software error</b> 	Service required	Upon startup and periodically during operation the microprocessor performs diagnostic tests. A software error has been detected.	Return to Cardinal Health for service.
<b>Compressor error</b> 	Service required	The compressor has malfunctioned electrically.	Service technician only: Verify that the compressor wires are properly connected.
<b>Battery error</b> 	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.
<b>Pressure transducer error</b> 	Service required	The system could not sense a pressure rise of more than 5 mm Hg during an inflation cycle or during startup.	Service technician only: Check the transducer tube inside the controller and ensure it is neither kinked nor disconnected.
<b>Low battery error</b> 	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 and disinfection

## Controller cleaning

The Kendall SCD™ 700 Compression System complies with protection IP23 against liquid 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 sterilization, because irreparable damage to the system will occur.



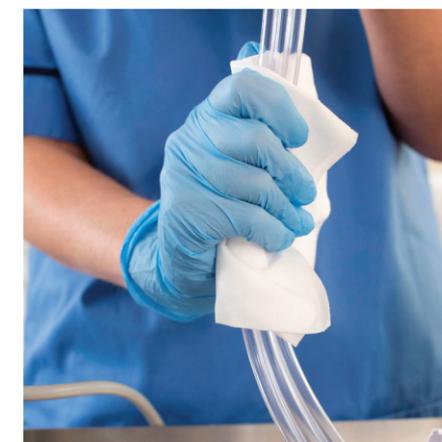
### Kendall SCD™ 700 Series controller cleaners

Chemical component (with approximate concentrations)
0.5% Bleach solution
70% Isopropanol alcohol
0.37% o-Phenylphenol
0.15% Dimethyl benzyl ammonium chloride, 0.15% dimethyl ethylbenzyl ammonium chloride
7.25% Hydrogen peroxide, 0.023% peracetic acid
3.4% Glutaraldehyde
Dodecylbenzene sulfonate, coconut diethanolamide diluted per instructions

## 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)
0.5% Bleach solution
70% Isopropanol alcohol
7.25% Hydrogen peroxide, 0.023% peracetic acid
Dodecylbenzene sulfonate, coconut diethanolamide diluted per instructions

## Kendall SCD™ 700 Compression System

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

For more information or to order, contact your Cardinal Health sales representative,  
or visit our website at [cardinalhealth.com/getsmartcompression](https://www.cardinalhealth.com/getsmartcompression)

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