Powerheart® G5 AED Training Device User's Guide

Use the Automated External Defibrillator (AED) Training Device for teaching basic AED rescue skills and correct defibrillation procedures.

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Package Contents

In the AED Training Device box, you should find the following:

◆ Powerheart® G5 Training Device (1)

Three C-cell batteries are required (not included)

◆ Adult trainer pads (1 pair)

◆ Infra-red remote control (1)

Two AAA batteries are required (not included)

◆ Language Packs and User's Guide CD

◆ Overlay for an automatic version

◆ Language configuration instructions

Safety

Before using the Training Device, be aware of the following:

WARNING! Patient injury or death.
The AED Training Device is not a rescue device and cannot deliver defibrillation shock therapy. The AED Training Device is for training or demonstration only.

To avoid confusion, do not store the AED Training Device or AED Training Pads in the same area with other AED equipment.

To avoid confusion when referring to the AED Training Device and other devices in this manual, the following terms are used:

◆ Rescue—any device or accessory intended to deliver a therapeutic shock includes the word "rescue" (for example, the Powerheart® G5 Automatic is a *rescue* AED).

◆ Training—any device or accessory used to demonstrate AED functionality includes the words "training" or "Training Device" (for example, AED *Training* Pads cannot deliver a therapeutic shock).

Supported Models

This AED Training Device approximates the function these Cardiac Science Corporation AED models:

◆ Powerheart® G5 Automatic

◆ Powerheart® G5 Semi-automatic

Additionally, the Training Device supports branded and other models that have the same functionality as the listed models.

Intended Use

The AED Training Device and this manual are intended for use by qualified instructors with the following competencies and experience:

◆ American Heart Association or European Resuscitation Council (or their equivalents) cardio-pulmonary resuscitation (CPR) certification and first responder defibrillation training

◆ A thorough understanding of operation and use of supported rescue AED models and accessories

For detailed operating instructions for a specific rescue AED model, refer to the User's Guide for that model.

Learning Objectives

After training, students should have the minimum competencies:

◆ Successfully simulate a patient rescue using the AED Training Device

◆ Understand the operation of rescue AEDs

◆ Understand differences between the AED Training Device and rescue AEDs

AED Training Device Overview

The AED Training Device is a simulated AED for teaching basic rescue skills and correct defibrillation procedure to first responders who use Cardiac Science AEDs.

The AED Training Device can:

◆ Simulate each rescue stage

◆ Change rescue scenarios (4 rescue scenarios are available)

◆ Create simulated cardiac rescue scenarios, both shockable and non-shockable

Instructors operate the AED Training Device by remote control.

AED Training Device Parts

The AED Training Device has the same general external features as a rescue AED.

Note: The AED Training Device uses special training pads only to demonstrate proper pad placement. Training pads cannot deliver a shock or provide feedback.

The AED Training Device may be configured for semi-automatic or automatic operation.

Refer to the appropriate rescue AED User's Guide for detailed descriptions of parts of a rescue AED.

AED Training Device Remote Control Functions

The remote control has the following functions:

Table 1: AED Training Device Remote Buttons

Button	Use
1: • Shock cancelled	• Press while the trainer prompts, "Shock Advised" to change the prompt to, "Rhythm changed. Shock cancelled." • Press during **Place Pads** prompts to forward to the **Analysis** prompts. The next sequence (**Shock** or **CPR**) is determined by the selected scenario. • Press during a **CPR** sequence to forward to the **Analysis** prompts, followed by another **CPR** sequence.
2: • Shock advised	• Press during **Place Pads** prompts to forward to the **Analysis** prompts. The next sequence (**Shock** or **CPR**) is determined by the selected scenario. • Press during a **CPR** sequence to forward to the **Analysis** prompts followed by a **Shock** sequence.
3: • Check pads	• Press during analysis to prompt, "Press pads firmly to patient's bare chest." • Press again to continue the scenario.
4: • Place pads	After the prompt, "Remove white square package from lid of AED," press to prompt: • "Peel one of the white pads completely from blue plastic" • "Firmly place the pad on the patient" • "Next, peel second white pad from the blue plastic" • "Firmly place the second pad on other location." **Note:** Press to advance through the prompts more quickly.

Table 1: AED Training Device Remote Buttons (continued)

Button	Use
5: • Analysis interrupted	• Press during **Analysis** prompts to prompt, "Analysis interrupted. Stop patient motion." • Press again to continue.
6: • Battery low	• Press during a rescue scenario to prompt, "Battery low" (the battery LEDs will also show low battery). • Press again to turn off the low battery LED and turn on two green battery LEDs.
7: • Service required	• Press to prompt, "Service required." • Press again to continue.
8: • Pause • Resume	• Press at any time to pause (the AED Training Device beeps while paused). • Press again to continue. **Note:** If the device is already in Pause mode because a scenario sequence finished, the AED Training Device restarts.
9: • Change scenario • Change volume	• Press **#** then **1** to start Scenario 1. • Press **#** then **2** to start Scenario 2. • Press **#** then **3** to start Scenario 3. • Press **#** then **4** to start Scenario 4. • Press **#** then **7** to decrease volume. • Press **#** then **8** to increase volume.

Table 1: AED Training Device Remote Buttons (continued)

Button	Use
 10: • CPR feedback	• Press **10** then **1** to prompt, "Press harder." • Press **10** then **2** to prompt, "Press softer." • Press **10** then **3** to prompt, "Press faster." • Press **10** then **4** to prompt, "Press slower." **Note:** Turn ON CPRD option on the configuration menu before performing this operation.

Training Device Setup

The Training Device has several features that can be tailored to the needs of the instructor.

Language Selection

Note: This is only for devices with dual languages installed.

To change the language of the voice and text prompts:

1. Open the Training Device lid and immediately press and hold the Shock button for 5 seconds. The Shock button remains lit and the current language is displayed on the screen.

2. Press the left soft key on the Training Device to scroll through the language selections (default or alternate).

3. When the desired language is displayed, press the Shock button.

Operating Mode

To set the mode:

1. Select the language. The Training Device displays the current operating mode.
2. Press the left soft key to display the mode selection: Automatic or Semi-automatic.
3. Press the Shock button to select and save the mode.

Prompt Level

To set the prompt level:

1. Select the operating mode. The Training Device displays the current prompt level.
2. Press the left soft key to scroll through the prompt levels: Basic, Standard, and Advanced.
3. Press the Shock button to select and save the prompt level.

CPR Prompt Style

To set the CPR prompt:

1. Select the prompt level. The Training Device displays the current CPR prompt style.
2. Press the left soft key to scroll through the CPR prompt styles: Traditional 30:2 and Compressions Only.
3. Press the Shock button to select and save the CPR prompt style.

Metronome Option

1. Select the CPR prompt style. The Training Device displays the Metronome option.

2. Press the left soft key to scroll through the Metronome option: ON or OFF.

   Note: If the Prompt Level is set as Basic or Standard and the CPR Prompt style is Compressions Only, the metronome is set to ON.

3. Press the Shock button to select and save the Metronome option.

CPR Device Prompt Option

1. Select the Metronome option. The Training Device displays whether or not the CPR Device prompt option is ON or OFF.

2. Press the left soft key to change the CPR Device prompt option.

3. Press the Shock button to select and save the CPR Device prompt option.

4. The Training Device restarts with the new setting.

Rescue Scenarios

This section describes a typical rescue scenario and then lists the pre-set rescue scenarios. To change scenarios, refer to *AED Training Device Remote Control Functions* on *page 5*.

Note: Unlike a rescue AED, the AED Training Device does not store rescue information.

Typical Rescue Scenario

The following steps demonstrate a typical rescue scenario. Once the AED Training Device is set and the lid is opened, the AED Training Device advances through the complete scenario. The instructor may speed up the scenario if required.

1. Open the lid of the AED Training Device. The AED Training Device prompts, "Stay calm and follow these instructions" and ensure that Emergency services are called now.

2. Press 4 on the remote to advance through the pad placement prompts:

   Note: The prompts below are provided when the Standard Prompt level is selected.

   - "Tear open white package across dotted line and remove pads".
   - "Peel one of the white pads completely from the blue plastic".
   - "Firmly place the pads without the blue plastic on patients bare chest exactly as shown on the pads".
   - "Next, peel the second white pad from the blue plastic".
   - "Firmly place the second pad on the other location exactly as shown on the pads".

3. Press 4 again to indicate pad placement.

4. The AED Training Device advances to the analysis stage of the rescue sequence and prompts, "Do not touch patient. Analyzing rhythm."

5. If a shockable rhythm is selected, the AED Training Device prompts, "Shock Advised."

6. Next, follow these steps to deliver a simulated shock:

   Note: Following steps are applicable only for Semi-automatic mode.

   a. The AED Training Device prompts, "Press red flashing button to deliver Shock."

   b. The student presses the Shock button to deliver the first simulated defibrillation.

If the Shock button is not pressed after 30 seconds, the device prompts, "A shock is not delivered," and enters CPR mode.

If the scenario defines a non-shockable rhythm, the AED Training Device prompts, "If needed, perform CPR as instructed."

Recommended Rescue Scenarios

Note: If simulating an automatic AED, instead of prompting for shock, the AED Training Device counts down and then automatically delivers a shock.

Table 2: Rescue scenarios

Step	Scenario 1	Scenario 2	Scenario 3	Scenario 4
1	Open the Training Device lid			
2	Place pads on manikin			
3	The Training Device performs analysis			
4	Prompt to shock (Semi-Auto) or shock delivered (Auto)	Prompt to shock (Semi-Auto) or shock delivered (Auto)	Prompt to shock (Semi-Auto) or shock delivered (Auto)	No shock advised
5	CPR	CPR	CPR	CPR
6	Analysis	Analysis	Analysis	Analysis
7	No shock advised	No shock advised	Prompt to shock (Semi-Auto) or shock delivered (Auto)	No shock advised
8	CPR	CPR	CPR	CPR
9	Analysis	Analysis	Analysis	Analysis

Table 2: Rescue scenarios (continued)

Step	Scenario 1	Scenario 2	Scenario 3	Scenario 4
10	No shock advised	Prompt to shock (Semi-Auto) or shock delivered (Auto)	Prompt to shock (Semi-Auto) or shock delivered (Auto)	No shock advised
11	CPR	CPR	CPR	CPR
12	Analysis	Analysis	Analysis	Analysis
13	No shock advised	No shock advised	Prompt to shock (Semi-Auto) or shock delivered (Auto)	No shock advised
14	CPR	CPR	CPR	CPR

Maintenance

The AED Training Device has no user-serviceable parts. The only maintenance required is to:

◆ Clean external surfaces with a damp cloth.

◆ Replace batteries in the AED Training Device or remote as needed.

- The AED Training Device requires three C-cell alkaline batteries
- The remote control requires two AAA alkaline batteries

When replacing batteries, ensure that the polarity is correct.

For any other maintenance or repair problem, call Cardiac Science Technical Support, or outside the United States, your local representative.

FCC Notice to United States Users

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1)This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation. See 47CFR Sec. 15.19(3).

Specifications

The following table lists AED Training Device specifications:

Table 3: Specifications

Parameter	Detail
Dimensions	Height: 8 cm (3.3 in) Width: 24 cm (9.5 in) Depth: 32 cm (12.5 in)
Operating and Standby Conditions	Temperature: 0° C to +50° C (32° F to +122° F) Humidity: 5% to 95% (non-condensing)
Shipment Conditions (Up to one week)	Temperature: -40° C to +65° C (-40° F to +149° F) Humidity: 5% to 95% (non-condensing)
Battery	AED Training Device: Three C-cell alkaline batteries Remote control: Two AAA alkaline batteries
Emissions	Radiated E-M: EN 55011, Group 1, Category B with Radio-frequency: CISPR 11, Class B, Group 1
Immunity	Radiated E-M: EN 61000-4-3 Radiated M: EN 61000-4-8 ESD: EN 61000-4-2

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