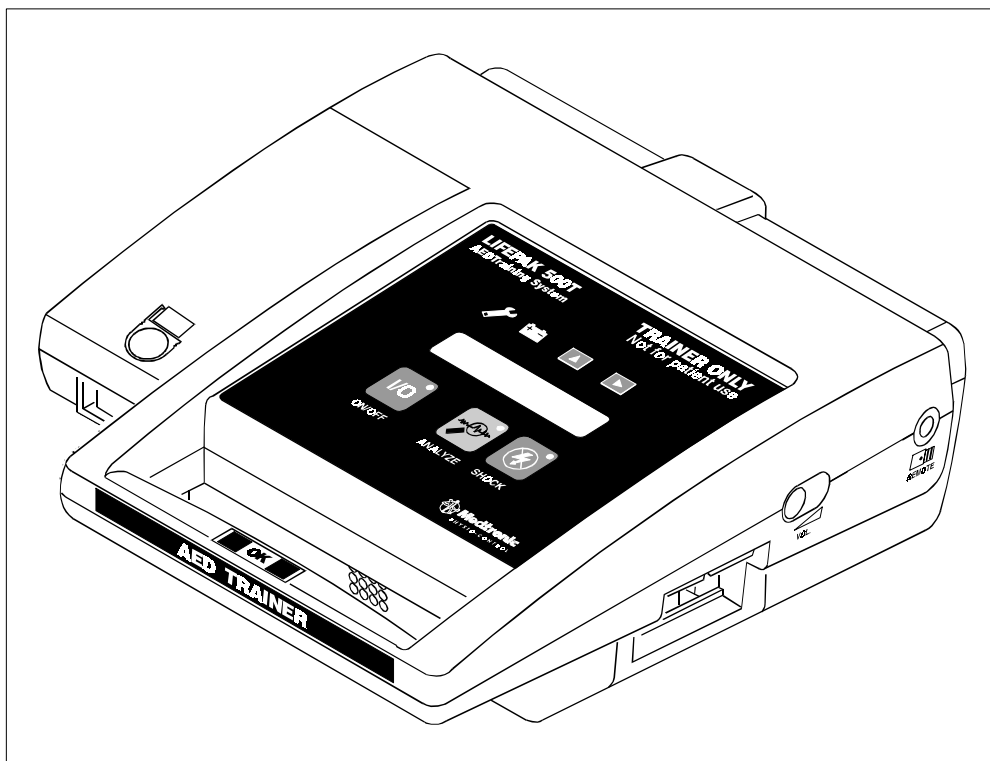


**LIFEPAK® 500T**  
AED Training System



**LIFEPAK® 500T AED TRAINING SYSTEM**  
**QUICK START Reference Card**



**QUICK START PROCEDURE**

- 1 Turn AED Trainer on.
- 2 Press PAUSE button on the remote control.
- 3 Select Shock Protocol from the Table below.
- 4 Press PAUSE again to confirm shock protocol. AED Trainer will turn itself off.
- 5 You are now ready to begin a training session. Use the remote control to create troubleshooting situations. Refer to the opposite side of this card for details.
- 6 Once the AED is turned on, the CONNECT ELECTRODES message appears (unless turned off in setup). Press ELECTRODE PADS on the remote control to advance to analysis.

**Note:** The AED Trainer powers on with the last shock protocol selected during the previous use.

For detailed instructions, refer to the LIFEPAK 500T AED TRAINING SYSTEM Operating Instructions.

Remote Control Button	AED Trainer Shock Protocol	Shock Sequence	AHA <sup>a</sup> Heartsaver™ Scenario	ARC <sup>b</sup> AED Scenarios
F1	Fixed #1	SSSSN	1, 5	1, 3
F2	Fixed #2	NNNN	4, 6	NA
F3	Fixed #3	SSNNNN	2, 3, 8	NA
F4	Fixed #4	SSNSSN	7	NA
C1*	Custom #1	SSSSSSSS	NA	NA
C2*	Custom #2	SSSSSSSS	NA	2, 4 <sup>c</sup>

<sup>a</sup> American Heart Association. <sup>b</sup> American Red Cross S: Shock Advised N: No Shock Advised. <sup>c</sup> These shock protocols (SNSN) can be customized in the AED Trainer. \*Custom settings may be changed in the set up mode (refer to Operating Instructions Manual).

**LIFEPAK® 500T AED TRAINING SYSTEM**  
**QUICK START Reference Card**



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- 1 Turn AED Trainer on.
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F1	Fixed #1	SSSSN	1, 5	1, 3
F2	Fixed #2	NNNN	4, 6	NA
F3	Fixed #3	SSNNNN	2, 3, 8	NA
F4	Fixed #4	SSNSSN	7	NA
C1*	Custom #1	SSSSSSSS	NA	NA
C2*	Custom #2	SSSSSSSS	NA	2, 4 <sup>c</sup>

<sup>a</sup> American Heart Association. <sup>b</sup> American Red Cross S: Shock Advised N: No Shock Advised. <sup>c</sup> These shock protocols (SNSN) can be customized in the AED Trainer. \*Custom settings may be changed in the set up mode (refer to Operating Instructions Manual).

**LIFEPAK® 500T AED TRAINING SYSTEM  
QUICK START REFERENCE CARD**



**REMOTE CONTROL OPERATION**

Button	Function
	Press to change any shock decision to NO SHOCK ADVISED. Function is active only during PUSH ANALYZE and STAND CLEAR, ANALYZING NOW.
	Press to toggle the training electrodes "on" or "off" the manikin. This feature is active when the training electrodes are connected to the AED Trainer.
	Press to toggle MOTION DETECTED "on" and "off." This feature is active during analysis only.
	Press once to activate a service warning (red wrench). Press twice: wrench flashes and CALL SERVICE is displayed and device will not operate. To clear, turn off the AED TRAINER, or remove the battery pack.
	Press once to activate LOW BATTERY. Press twice to activate REPLACE BATTERY. Press three times to simulate failed battery. To clear, turn off the AED Trainer, or remove the battery pack.
	Press to simulate device detection of a shockable rhythm. CPSS is disabled when AUTO ANALYZE 2 is selected.
	Press any time to suspend device operation. Press again to resume operation at point of interruption. In PAUSE mode, press F1, F2, F3, F4, C1, or C2 to change shock protocol. Press PAUSE again to accept change and turn off AED Trainer.

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**LIFEPAK® 500T AED TRAINING SYSTEM  
QUICK START REFERENCE CARD**



**REMOTE CONTROL OPERATION**

Button	Function
	Press to change any shock decision to NO SHOCK ADVISED. Function is active only during PUSH ANALYZE and STAND CLEAR, ANALYZING NOW.
	Press to toggle the training electrodes "on" or "off" the manikin. This feature is active when the training electrodes are connected to the AED Trainer.
	Press to toggle MOTION DETECTED "on" and "off." This feature is active during analysis only.
	Press once to activate a service warning (red wrench). Press twice: wrench flashes and CALL SERVICE is displayed and device will not operate. To clear, turn off the AED TRAINER, or remove the battery pack.
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	Press to simulate device detection of a shockable rhythm. CPSS is disabled when AUTO ANALYZE 2 is selected.
	Press any time to suspend device operation. Press again to resume operation at point of interruption. In PAUSE mode, press F1, F2, F3, F4, C1, or C2 to change shock protocol. Press PAUSE again to accept change and turn off AED Trainer.

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## 1. DESCRIPTION

This section describes basic features, controls, and indicators of the LIFEPAK® 500T AED Training System (AED Trainer) under the headings:

- Introduction
- Controls, Indicators, and Connectors
- Remote Control

### Introduction

The LIFEPAK 500T AED Training System provides realistic training in the use of the LIFEPAK 500 automatic external defibrillator (AED) without the actual charge and discharge of electrical energy. The AED Trainer accurately mimics the appearance of the LIFEPAK 500 AED and realistically simulates actual LIFEPAK 500 AED operations including both two or three button operation.

The AED Trainer reproduces the LIFEPAK 500 AED's screen messages, audible tones, and voice prompts while guiding users through simulated analysis, energy delivery, and prompted CPR time (when selected). All AED Trainer functions are programmable to simulate the full range of scenarios possible during "real life" use of the LIFEPAK 500 AED.

AED Trainer voice prompts and displayed messages are available in eight languages: English, German, Spanish, Italian, Portuguese, French, Swedish, or Dutch.

The AED Trainer is powered by four alkaline D-cell batteries. The batteries are housed in a battery pack that mimics the size, shape, and installation technique of the LIFEPAK 500 AED battery.

**Note.** The AED Trainer does not provide training in the data management functions of the LIFEPAK 500 AED.

An infrared, wireless remote control allows the instructor to pause AED Trainer operation or to interrupt preconfigured routines with NO SHOCK ADVISED, CONNECT ELECTRODES, MOTION DETECTED, SERVICE WARNING/REQUIRED, LOW/REPLACE BATTERY and CPSS prompts.

The remote control may also be operated with the included cable. The remote control is powered by two AAA alkaline batteries.

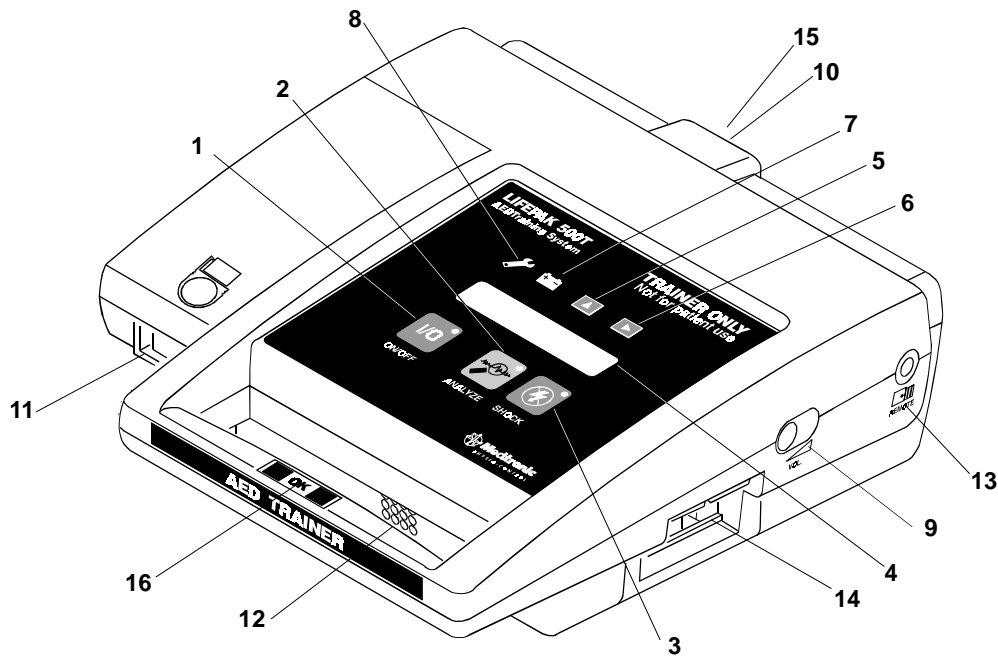
The AED Trainer and remote control are intended for indoor use under normal room temperature and lighting conditions.

### Controls, Indicators, and Connectors

AED Trainer controls, indicators, and connectors are illustrated in Figures 1 and 2, and described in Table 1. Table 2 summarizes all the AED Trainer's voice prompts, screen messages, tones, and lighted indicators.





Remote control buttons are illustrated in Figure 3 and described in Table 3.

## Description






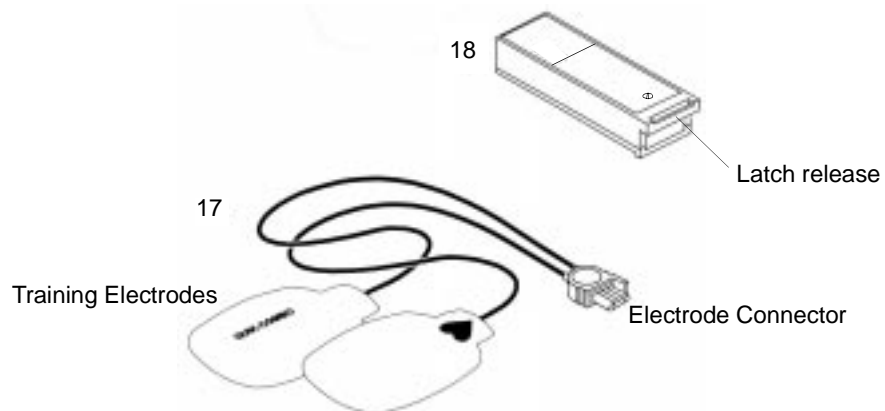
**Figure 1** AED Trainer controls, indicators, and connectors

**Table 1** AED Trainer controls, indicators, and connectors

1	 <p><b>ON/OFF</b></p>	<p>Press green ON/OFF to turn AED Trainer power on or off. Power on is confirmed by a green light in the upper right corner of the button.</p>
2	 <p><b>ANALYZE</b></p>	<p>Press yellow ANALYZE to begin simulated analysis. The yellow light in the upper right corner flashes during the PUSH ANALYZE display and stays on steady during simulated analysis.</p> <p>Note. Analysis begins automatically when Auto Analyze 2 is selected.</p> <p>ANALYZE may be covered with the black sticker (included) to simulate the appearance and operation of a 2-button LIFEPAK 500 AED.</p>
3	 <p><b>SHOCK</b></p>	<p>Press orange SHOCK to respond to the PUSH TO SHOCK prompt. The light in the upper right corner of the button flashes during display of the PUSH TO SHOCK message.</p>
4	<p>Liquid Crystal Display (LCD)</p>	<p>Displays text messages and shock count. Two lines, 20 characters per line.</p>
5		<p>(Up arrow) Used in Setup Mode to scroll through configuration options.</p>

**Table 1** AED Trainer controls, indicators, and connectors (Continued)

6		(Right arrow) Used in Setup Mode to move the cursor to the right.
7		Icon lights red to simulate low battery power. Flashing red icon indicates replace battery immediately.
8		Icon lights red to simulate service required by authorized personnel.
9	Volume Control	Three-level selection switch controls speaker volume.
10	Remote Control Signal Receptor and Indicator	Remote control indicator lights to indicate signal reception from remote control.
11	Training Electrode Connector	Connection for the training electrodes.
12	Speaker	Provides audio voice prompts and tones.
13	Remote Control Connector	Connection for the remote control.
14	Battery Compartment	Accommodates the removable battery pack.
15	Remote Control Storage Compartment	Storage for remote control (in rear).
16	Readiness Display	In an actual LIFEPAK 500 AED, the readiness display allows the operator to determine if the AED is ready for use when the device is turned off or when the key panel is not visible. The readiness display is not functional on the AED Trainer. Note: Not all LIFEPAK 500 AEDs have a Readiness Display.

**Figure 2** Battery pack and training electrodes

17	Training Electrodes	Use the AED Trainer training electrodes to practice accurate electrode connection and placement.
18	Battery Pack	Holds four standard D-cell batteries that provide power to the AED Trainer. Installs into battery compartment.

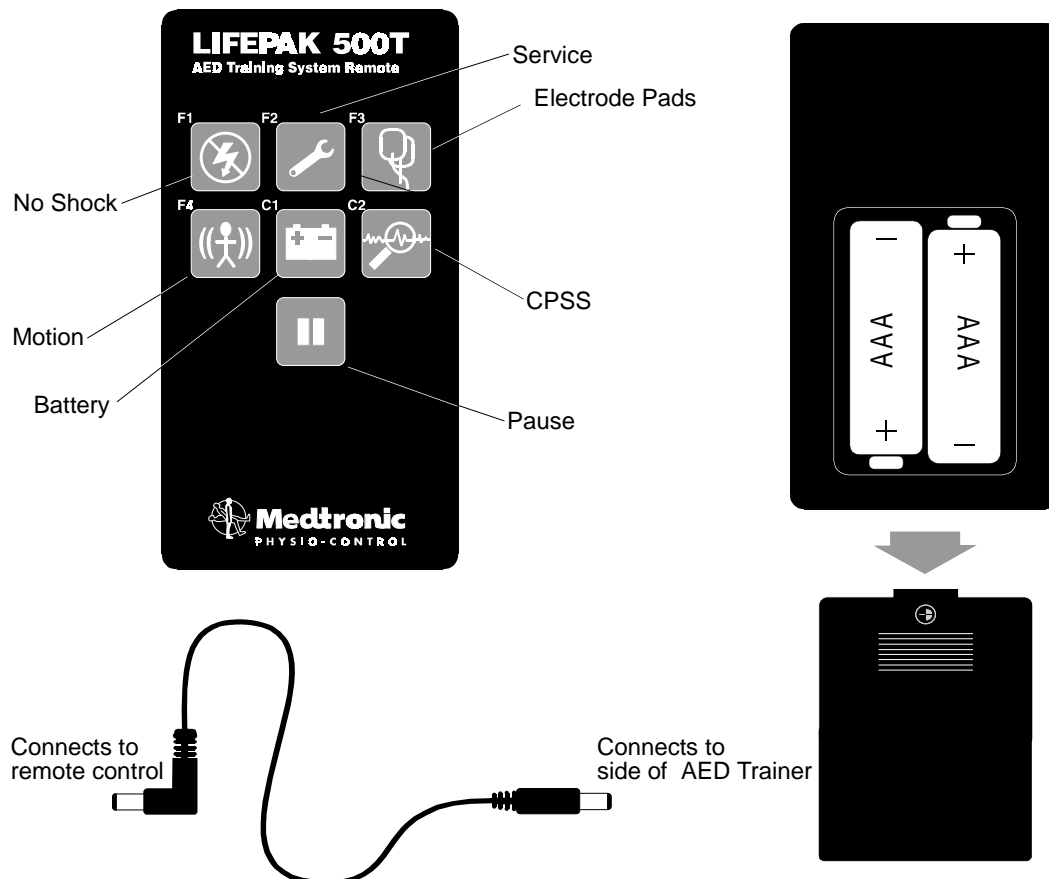
**Description**

**Table 2** AED Trainer voice prompts, display messages, tones, and indicators

Prompt	Voice	Display	Indicator
CONNECT ELECTRODES	X	X	
PUSH ANALYZE	X	X	ANALYZE flashes yellow
ANALYZING NOW	X	X	ANALYZE steady yellow
STAND CLEAR	X	X	ANALYZE steady yellow
NO SHOCK ADVISED	X	X	
CHECK FOR PULSE	X	X	
SHOCK ADVISED	X	X	
PUSH TO SHOCK	X	X	SHOCK flashes red
IF NO PULSE START CPR	X	X	
MOTION DETECTED	X	X	
STOP MOTION	X	X	
LOW BATTERY		X	Red battery indicator on steady
REPLACE BATTERY	X	X	Battery indicator flashes red
CHARGE REMOVED		X	
ASYSTOLE	X	X	
CALL SERVICE		X	Service indicator flashes red
Attention "Beep" Tone	X		
Shock Counter		X	
CPR Countdown Timer		X	
Charging Tone (8 seconds)	X		
Motion Tone	X		
Push to Shock Tone	X		
Pause (Remote Control only)		X	ON/OFF flashes green

## Remote Control

The remote control and optional cable are illustrated below in Figure 3. Remote control functions are fully described in Section 3, beginning on page 12.



PAUSE	+ Button =	Shock Protocol
	F1	Fixed #1
	F2	Fixed #2
	F3	Fixed #3
	F4	Fixed #4
	C1	Custom #1
	C2	Custom #2

**Figure 3** Remote control and cable

## 2. GETTING READY

This section describes how to prepare the AED Trainer for use. This information is found under the headings:

- Unpacking and Initial Inspection
- Installing batteries
- Beginning a Training Session

### Unpacking and Initial Inspection

Remove the AED Trainer from the shipping container. Examine the device and accessories for any sign of damage during shipping. Save the container for reshipping the device.

Shipping container contents include:

- AED Trainer
- Remote control
- Remote control cable
- Battery pack
- Training electrodes
- Analyze Key Cover labels (black sticker)
- Softcase with identification card
- 2 AAA batteries (for remote control)
- 4 D-cell batteries (for battery pack)
- AED Instruction Card
- Operating instructions (this manual)

### Installing batteries

The AED Trainer is powered by four D-cell alkaline batteries. The batteries are housed in a “battery pack” that simulates the size, weight, and installation technique of the LIFEPAK 500 AED BATTERY PAK. Four fresh batteries provide 100 hours minimum of continuous device operation.

The remote control requires 2 AAA batteries.

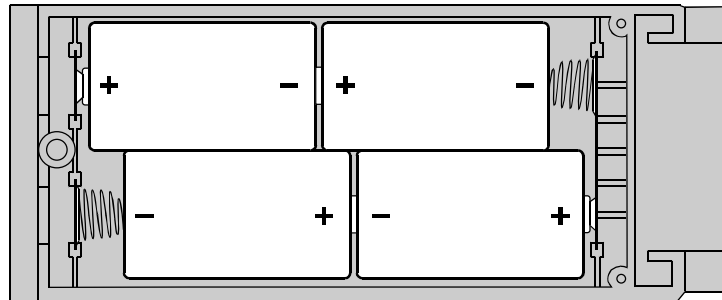
#### To install batteries in the battery pack:

- 1 Verify that AED Trainer power is off. Remove the battery pack by depressing the battery pack latch on the side of the AED Trainer.
- 2 To remove the battery compartment cover, remove the screw and cover.
- 3 Insert four fresh batteries taking care to position the (+) and (-) terminals correctly (see Figure 4).
- 4 Replace the battery compartment cover and insert the battery pack into the AED Trainer until the latch snaps into place.

**Note.** Always replace all the batteries at the same time. Always use four identical batteries.

**Note.** For permanent storage, remove the batteries from the battery pack. For infrequent use of the product (approximately once every six months), the batteries may remain in the battery pack.

**Note.** To conserve battery power, the AED Trainer shuts down automatically after 15 minutes of inactivity. In Pause mode, the AED Trainer automatically shuts down after 30 minutes of inactivity.



**Figure 4** Battery pack battery installation

**To install or replace the remote control batteries (see Figure 3, page 7):**

- 1 On the rear of the remote control, slide the battery compartment cover open using firm downward thumb pressure.
- 2 Insert two AAA batteries taking care to align the (+) and (-) terminals correctly.
- 3 Replace the battery compartment cover, making sure it snaps securely into place.

### Beginning a Training Session

- 1 Confirm or setup AED Trainer configuration.

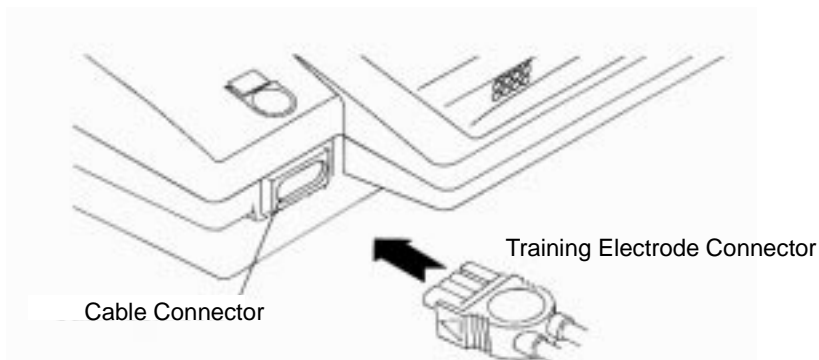
To mimic a 2-button LIFEPAK 500 AED, place the black sticker (included) over ANALYZE and select AUTO ANALYZE 2 in the Setup Options (Section 4, page 15).

Review AED Trainer settings and configure as desired. Section 4 (page 15) provides complete setup and configuration information.

- 2 Connect the training electrodes to the AED Trainer.

To connect the training electrodes to the AED Trainer, insert the electrode connector into the AED Trainer cable connector until it snaps into place (Figure 5).

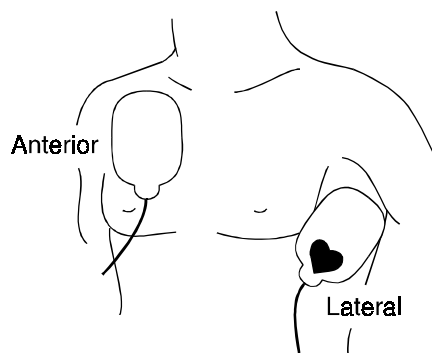
To disconnect the training electrodes from the AED Trainer, grasp the connector and pull firmly away from the unit. Do not disconnect the training electrodes by pulling on the cable.



**Figure 5** Training electrode connection to the AED Trainer

- 3 Place training electrodes on the manikin.

Refer to Figure 6 for training electrode placement on the manikin.



**Figure 6** Training electrode placement on manikin

To remove the training electrodes from the manikin, grasp the electrode pad at the cable end and peel it away from the manikin at a 45° angle. Do not remove the training electrodes from the manikin by pulling on the cable.

**Note.** Do not touch the adhesive or allow a training electrode to fold over on itself. This will shorten the electrode's useful life.

**Note.** During operation of the AED Trainer:

- If the training electrodes disconnect from the device, the CONNECT ELECTRODES message appears.
- If the training electrodes detach from the manikin, the CONNECT ELECTRODES message does **not** appear.

**4** Press ON/OFF to turn AED Trainer power on and off.

Whenever the AED Trainer is turned on, a four- to five-second self-diagnostic initialization occurs. During initialization all display segments blink on and off once. The following messages appear briefly: MEDTRONIC PHYSIO-CONTROL C20XX, and SELF TEST 1.00. All indicators blink on and off once.

When initialization is complete, the green ON/OFF indicator stays on steady and the AED Trainer begins automatic operation.

Depending on AED Trainer configuration, the user receives one of the following prompts:

- PUSH ANALYZE
- STAND CLEAR, ANALYZING NOW
- CONNECT ELECTRODES

**Note.** If the operator turns the AED Trainer off when the D-cell batteries that power the AED Trainer are low, the AED Trainer gives the following "low battery" indicators:

- The ON/OFF light remains on
- A 3-beep tone sounds
- A low battery message appears on the display
- The battery icon flashes red

After these low battery indicators, the AED Trainer shuts off.

### 3. USING THE REMOTE CONTROL

This section describes the functions of the remote control and how the remote control interacts with the AED Trainer. This information is found under the headings:

- Introduction
- Remote Control Cable
- Remote Control Functions

#### Introduction

During a training session, the instructor may use the remote control to create realistic training scenarios. The remote control allows the instructor to:

- Vary the shock protocol “on the fly”
- Pause AED Trainer operation
- Interrupt preconfigured routines with NO SHOCK ADVISED, CONNECT ELECTRODES, MOTION, SERVICE WARNING/REQUIRED, LOW/REPLACE BATTERY and CPSS prompts
- Select any one of the six available shock protocols (while in pause mode)

The remote control communicates with the AED Trainer via wireless infrared signals, or by means of an optional cable. An indicator on the rear of the AED Trainer acknowledges received remote control signals both with and without the cable:

- One red flash indicates valid signal reception from the remote control, and AED Trainer operation responds accordingly.
- Three rapid red flashes indicate that an invalid remote control key was pressed, and AED Trainer operation is unchanged.
- A steady red light indicates that the AED Trainer is in Pause mode.

To use the remote control without the cable, the Trainer must stand behind the AED Trainer. During use, hold the remote control level rather than aiming it directly at the AED Trainer.

Each time the AED Trainer is turned on, all remote selections from the previous training session are deleted, with the exception of the current shock protocol which is stored in memory.

#### Remote Control Cable






To use the remote control cable, insert the cable’s right-angle connector into the remote control connector located on the remote control. Insert the other end into the connector located on the side of the AED Trainer (see Figure 1, page 4).

Disconnect the remote control cable by grasping the connector at each end and pulling backward gently.



## Remote Control Functions

Remote control functions are described in Table 3.

**Table 3** Remote control functions

Symbol	Function	Operation and Description
	<ul style="list-style-type: none"> <li>Change any rhythm to NO SHOCK ADVISED</li> </ul>	<p>Press NO SHOCK to change any shock decision within a shock protocol to NO SHOCK ADVISED. This function is enabled only during PUSH ANALYZE and STAND CLEAR, ANALYZING NOW periods.</p>
	<ul style="list-style-type: none"> <li>Simulate SERVICE WARNING, SERVICE REQUIRED</li> </ul>	<p>Press SERVICE once to activate SERVICE WARNING. The AED Trainer continues normal operation while the SERVICE wrench lights red.</p> <p>Press SERVICE a second time to activate SERVICE REQUIRED. The service wrench flashes and the AED TRAINER stops operating.</p> <p>To clear either service prompt, turn the device off.</p>
	<ul style="list-style-type: none"> <li>Simulate training electrode placement/attachment on the manikin</li> </ul>	<p>Press ELECTRODE PADS to toggle the training electrodes “on” and “off” the manikin.</p> <p>When training electrodes are “off” the manikin, the AED Trainer delivers CONNECT ELECTRODES prompt until the instructor presses ELECTRODE PADS again.</p> <p><b>Note.</b> This feature is active only when training electrodes are connected to the AED Trainer</p>
	<ul style="list-style-type: none"> <li>Start or stop simulated motion</li> </ul>	<p>Press MOTION to toggle motion “on” and “off.”</p> <p>When motion is “on,” the device delivers MOTION DETECTED prompts until the instructor presses MOTION again.</p>
	<ul style="list-style-type: none"> <li>Simulate LOW BATTERY, REPLACE BATTERY, FAILED BATTERY</li> </ul>	<p>Press BATTERY once to activate the LOW BATTERY icon (steady red) and prompts. The AED Trainer continues normal operation while the BATTERY icon lights and a LOW BATTERY prompts alternate with normal prompts.</p> <p>Press BATTERY a second time to activate the REPLACE BATTERY icon (flashing red) and prompts. The AED Trainer continues normal operation while the BATTERY icon flashes and REPLACE BATTERY prompts alternate with normal prompts.</p> <p>To clear a LOW or REPLACE BATTERY prompt, turn the device off or remove the battery pack.</p> <p>Press BATTERY a third time to simulate failed batteries which automatically turns off the AED Trainer.</p>

**Table 3** Remote control functions (Continued)

Symbol	Function	Operation and Description
	<ul style="list-style-type: none"> <li>Simulate CPSS - Continuous Patient Surveillance System</li> </ul>	<p>Press CPSS to simulate device detection of a possible shockable rhythm.</p> <p>Press CPSS to interrupt device operation and initiate a 2-beep warning and PUSH ANALYZE prompts. When the operator presses ANALYZE, normal device operation resumes.</p> <p>CPSS is enabled during PUSH ANALYZE, CPR time and after IF NO PULSE, PUSH ANALYZE.</p> <p>CPSS is disabled when Auto Analyze 2 is selected.</p>
	<ul style="list-style-type: none"> <li>Pause / Resume Operation</li> <li>Select/configure shock protocol</li> </ul>	<p>Press PAUSE at any time to suspend device operation. All prompts cease and the message PAUSE appears on the display.</p> <p>Press PAUSE again to resume normal operation at the point of interruption.</p> <p>Press PAUSE and F1, F2, F3, F4, C1, or C2 to change the shock protocol.</p> <p>Press PAUSE again which saves the change and automatically turns off the AED Trainer.</p> <p>The AED Trainer goes into Pause mode when it reaches the end of a shock protocol. The instructor may either select another shock protocol by pressing the appropriate remote key (see below) or keep the same shock protocol by turning the AED Trainer off.</p>
F1	<ul style="list-style-type: none"> <li>Initiate shock protocol Fixed #1</li> </ul>	Press PAUSE, then F1 to initiate shock protocol Fixed #1 (3 shocks, CPR time, 1 shock, 1 NO SHOCK ADVISED, CPR time).
F2	<ul style="list-style-type: none"> <li>Initiate shock protocol Fixed #2</li> </ul>	Press PAUSE, then F2 to initiate shock protocol Fixed #2 (4 NO SHOCK ADVISED with CPR time).
F3	<ul style="list-style-type: none"> <li>Initiate shock protocol Fixed #3</li> </ul>	Press PAUSE then F3 to initiate shock protocol Fixed #3 (2 shocks, 1 NO SHOCK ADVISED, CPR time, 3 NO SHOCK ADVISED with CPR time).
F4	<ul style="list-style-type: none"> <li>Initiate shock protocol Fixed #4</li> </ul>	Press PAUSE then F4 to initiate shock protocol Fixed #4 (2 shocks, 1 NO SHOCK ADVISED, CPR time, 2 shocks, 1 NO SHOCK ADVISED, CPR time).
C1	<ul style="list-style-type: none"> <li>Initiate shock protocol Custom #1</li> </ul>	Press PAUSE then C1 to initiate shock protocol Custom #1 (User configurable. Default is 9 consecutive shocks with CPR time).
	<ul style="list-style-type: none"> <li>Initiate shock protocol Custom #2</li> </ul>	Press PAUSE then C2 to initiate shock protocol Custom #2 (User configurable. Default is 9 consecutive shocks with CPR time).

## 4. SETUP

This section explains how to setup and configure the AED Trainer. This information is found under the following headings:

- Setup Options
- Setup Procedure
- Language Setup

### Setup Options

Setup options are described in Table 4, below.

**Table 4** AED Trainer setup options

Setup Option	Description
SHOCK PROTOCOL	Six shock protocols are available: four preconfigured protocols and two user-configurable protocols. The preconfigured shock protocols cannot be changed. Default setting is CUSTOM#1.
•Fixed #1	3 shocks, CPR time, 1 shock, 1 NO SHOCK ADVISED, CPR time.
•Fixed #2	4 NO SHOCK ADVISED with CPR time.
•Fixed #3	2 shocks, 1 NO SHOCK ADVISED, CPR time, 3 NO SHOCK ADVISED with CPR time.
•Fixed #4	2 shocks, 1 NO SHOCK ADVISED, CPR time, 2 shocks, 1 NO SHOCK ADVISED, CPR time.
•Custom #1	User configurable (default is 9 consecutive shocks with CPR time.).
•Custom #2	User configurable (default is 9 consecutive shocks with CPR time.).
AUTO ANALYZE	AUTO ANALYZE options are OFF, 1, or 2. Default setting is AUTO ANALYZE 1.
•AUTO ANALYZE OFF:	The operator must press ANALYZE to initiate every analysis.
•AUTO ANALYZE 1:	Press ANALYZE to begin the first simulated analysis of each set of three consecutive simulated shocks. The AED Trainer automatically begins analysis for the second and third simulated shock in each three-shock set. After a CPR time, the operator must press ANALYZE again to start simulated analysis.
•AUTO ANALYZE 2:	All analysis cycles begin automatically. To simulate the look of a 2-button LIFEPAK 500 AED, the black sticker may be placed over the ANALYZE button. CPSS cannot be activated with the remote control in this mode.

**Table 4** AED Trainer setup options (Continued)

Setup Option	Description
CPR TIME	CPR time is a period when the AED Trainer prompts the operator to perform CPR. Nine CPR time intervals are available for each of two CPR time periods (in seconds): 0, 15, 30, 45, 60, 90, 120, 180, and 999 (infinite CPR time). Default setting is 60 seconds for both CPR Time 1 and CPR Time 2.  If zero is selected, there is no CPR Interval. Zero is not available if AUTO ANALYZE 2 is selected.
•CPR Time 1	Following three consecutive SHOCK ADVISED or following a NO SHOCK ADVISED that follows a SHOCK ADVISED.
•CPR Time 2	Follows a NO SHOCK ADVISED except for one that follows a SHOCK ADVISED.
ASYSTOLE	Choose ON or OFF. Default setting is OFF.
•On	After six consecutive NO SHOCKS, device prompts NO SHOCK ADVISED ASYSTOLE. No further analysis is initiated.
•Off	No impact on device function.
INITIAL ELECTRODE PLACEMENT	Choose ON or OFF. Default setting is OFF.
•On	When the AED Trainer is turned on and the training electrodes are connected to the device, analysis prompts begin automatically.
•Off	When the AED Trainer is turned on, CONNECT ELECTRODES prompts begin automatically. The device will not advance to analysis prompts until the training electrodes are connected to the device and the instructor presses ELECTRODE PADS on the remote control.
LANGUAGE	Choose one of eight languages for AED Trainer voice prompts and displayed messages: English, German, Spanish, Italian, Portuguese, French, Swedish, or Dutch.

### Setup Procedure

The following section describes how to:

- Enter Setup Mode
- Set or change the Setup options for Shock Protocol, Auto Analyze, CPR Time 1, CPR Time 2, Asystole Detector, and Initial Electrode Placement
- Select voice prompt and display language

**Note.** For 2-button devices (black sticker covers ANALYZE button), press the black sticker instead of the ANALYZE button in the following Setup procedures.

Settings are retained between device uses even if the batteries are removed.

**To enter Setup Mode:**

- 1 Make sure the AED Trainer is off.
- 2 Press and hold ▲ (up arrow) and ► (right arrow) and turn the AED Trainer on.

The messages SETUP MODE and X.X are displayed briefly (X.X is the installed software version). The SHOCK PROTOCOL screen appears.

**Configuring Shock Protocol**

- 1 Enter Setup Mode (described in the previous paragraph). The SHOCK PROTOCOL screen appears.

SHOCK PROTOCOL  
CUSTOM #1 SSSSSSSS

- 2 Press ▲ repeatedly to scroll through the six possible shock protocol options (The protocols are described in Table 3, page 13):
  - FIXED#1 (SSSN)
  - FIXED#2 (NNNN)
  - FIXED#3 (SSNNNN)
  - FIXED#4 (SSNSSN)
  - CUSTOM#1 (SSS SSS SSS)
  - CUSTOM#2 (SSS SSS SSS)
- 3 When the desired protocol appears, press either ANALYZE or ON/OFF:
  - Pressing ANALYZE saves the currently displayed protocol in memory and opens the next setup screen (AUTO ANALYZE).
  - Pressing ON/OFF saves the currently displayed protocol in memory and turns off the AED Trainer.

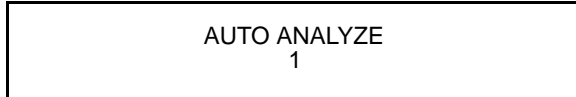
**To change the settings for CUSTOM#1 or CUSTOM#2:**

- When CUSTOM#1 or CUSTOM#2 appear on the display, press ► to make a cursor ( \_ ) appear under the first S. While the cursor is under the first S:
  - Press ▲ to toggle between S and N (S = shock, N = no shock).
  - For all subsequent S characters: press ▲ to toggle between S, N, or blank (no character).
  - Press ► to move the cursor to the right.
- When the shock protocol is configured as desired, do one of the following:
  1. Press ON/OFF which saves the selection and turns the unit off. OR,
  2. Press ANALYZE to save the custom protocol. Press ANALYZE again to proceed to the next setup screen (AUTO ANALYZE).

### Configuring Auto Analyze

After configuring shock protocol, the AUTO ANALYZE screen appears. Alternatively, to begin configuration with AUTO ANALYZE:

- Enter Setup Mode (see page 16). The SHOCK PROTOCOL screen appears.
- Press ANALYZE until the AUTO ANALYZE 1 screen appears.

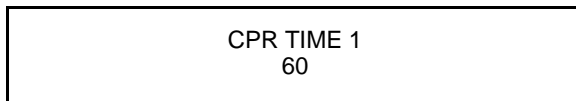


- Press ▲ repeatedly to scroll through the three possible settings: OFF, 1, or 2. When the desired setting appears, press either ANALYZE or ON/OFF:
  - Pressing ANALYZE saves the currently displayed protocol in memory and opens the next setup screen (CPR TIME 1).
  - Pressing ON/OFF saves the currently displayed protocol in memory (the display flashes) and turns off the AED Trainer.

### Configuring CPR Time 1

After configuring Auto Analyze, the CPR TIME 1 screen appears. Alternatively, to begin configuration with CPR TIME 1:

- Enter Setup Mode (see page 16). The SHOCK PROTOCOL screen appears.
- Press ANALYZE until the CPR TIME 1 screen appears.



- Press ▲ repeatedly to scroll through the nine possible CPR time settings (0, 15, 30, 45, 60, 90, 120, 180, 999 seconds). When the desired time appears, press either ANALYZE or ON/OFF:
  - Pressing ANALYZE saves the currently displayed CPR time in memory and opens the next setup screen (CPR TIME 2).
  - Pressing ON/OFF saves the currently displayed CPR time in memory (the display flashes) and turns off the AED Trainer.

### Configuring CPR Time 2

After configuring CPR Time 1, the CPR TIME 2 screen appears. Alternatively, to begin configuration with CPR TIME 2:

- Enter Setup Mode (see page 16). The SHOCK PROTOCOL screen appears.
- Press ANALYZE until the CPR TIME 2 screen appears.

CPR TIME 2  
60

- Press ▲ repeatedly to scroll through the nine possible CPR time settings (0, 15, 30, 45, 60, 90, 120, 180, 999 seconds). When the desired time appears, press either ANALYZE or ON/OFF:
  - Pressing ANALYZE saves the currently displayed CPR time in memory and opens the next setup screen (ASYSTOLE DETECTOR).
  - Pressing ON/OFF saves the currently displayed CPR time in memory (the display flashes) and turns off the AED Trainer.

### Configuring Asystole Detector

After configuring CPR Time 2, the ASYSTOLE DETECTOR screen appears. Alternatively, to begin configuration with ASYSTOLE DETECTOR:

- Enter Setup Mode (see page 16). The SHOCK PROTOCOL screen appears.
- Press ANALYZE until the ASYSTOLE DETECTOR screen appears.

ASYSTOLE DETECTOR  
OFF

- Press ▲ to toggle between the two possible settings (ON or OFF). When the desired setting appears, press either ANALYZE or ON/OFF:
  - Pressing ANALYZE saves the currently displayed setting in memory and opens the next setup screen (INIT ELEC PLACEMENT).
  - Pressing ON/OFF saves the currently displayed setting in memory (the display flashes) and turns off the AED Trainer.

### Configuring Initial Electrode Placement

After configuring Asystole Detector, the INIT ELEC PLACEMENT screen appears. Alternatively, to begin configuration with INIT ELEC PLACEMENT:

- Enter Setup Mode (see page 16). The SHOCK PROTOCOL screen appears.
- Press ANALYZE until the INIT ELEC PLACEMENT screen appears.

INIT ELEC PLACEMENT  
OFF

- Press ▲ to toggle between the two possible settings (ON or OFF). When the desired setting appears, press either ANALYZE or ON/OFF:
  - Pressing ANALYZE saves the currently displayed setting in memory and returns the SHOCK PROTOCOL screen.

- Pressing ON/OFF saves the currently displayed setting in memory (the display flashes) and turns off the AED Trainer.

**Language Setup Procedure**

Language settings are retained between device uses even if the batteries are removed.

To enter the Language Setup Mode:

- Press and hold in sequence: ▲, ►, and ANALYZE.
- Then press ON/OFF.

The software version appears briefly, then the LANGUAGE SELECT screen appears.



LANGUAGE SELECT  
ENGLISH

- 1 Press ▲ repeatedly to scroll through the eight possible language settings (ENGLISH, DEUTSCHE, ESPAÑOL, ITALIANO, PORTUGUES, SVENSKA, FRANÇAIS, NEDERLANDS).
- 2 When the desired language appears, press ON/OFF which saves the language selection (the display flashes) and turns off the AED Trainer.

## 5. MAINTENANCE

This section provides information for maintaining the LIFEPAK AED Trainer. This information is found under the following headings:

- Battery Pack Battery Replacement
- Remote Control Battery Replacement
- Warranty
- Troubleshooting
- Cleaning
- Product Recycling Information
- Specifications
- Accessories

### Battery Pack Battery Replacement

To replace the batteries (refer to Figure 4, page 9):

- 1 Verify that AED Trainer power is off. Remove the battery pack by depressing the latch on the side of the device.
- 2 To remove the battery compartment cover, remove the screw and cover.
- 3 Remove the old batteries and replace with four fresh batteries taking care to position the (+) and (-) terminals correctly.
- 4 Close the battery pack's latching door and reinsert the battery pack into the AED Trainer.

**Note.** Always replace all the batteries at the same time. Always use four identical batteries.

**Note.** For permanent storage, remove the batteries from the battery pack. For infrequent use of the product (approximately once every six months), the batteries may remain in the battery pack.

### Remote Control Battery Replacement

The remote control is powered by two "AAA" alkaline batteries. To replace the remote control batteries (refer to Figure 3, page 7):

- 1 To open the battery compartment: on the rear of the remote control, slide the battery compartment cover down with firm thumb pressure.
- 2 Remove the old batteries.
- 3 Replace with two fresh, identical batteries taking care to align the positive and negative terminals correctly.
- 4 Replace the battery compartment cover, making sure it snaps securely into place.

**Note.** Do not disassemble the AED Trainer. There are no operator-serviceable components and operator disassembly may void the warranty.

**Warranty**

Subject to the limitations and exclusions set forth below, Medtronic Physio-Control warrants that the LIFEPAK 500T AED Training System purchased for use in the United States from authorized Medtronic Physio-Control representatives or dealers and used in accordance with their instructions will be free from defects in material and workmanship appearing under normal device and use for a period of one year from the date of delivery to the first purchaser.

Medtronic Physio-Control does not warrant that Medtronic Physio-Control products will perform error-free or without interruptions. The sole and exclusive remedy under this warranty is to replace defective material or workmanship. The LIFEPAK 500T Training System requiring warranty replacement should be returned to Medtronic Physio-Control, freight prepaid, and must be accompanied by a written, detailed explanation of the claimed failure.

Except for the warranty provided above, MEDTRONIC PHYSIO-CONTROL MAKES NO WARRANTY, EXPRESS OR IMPLIED, AND MAKES NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Medtronic Physio-Control is not liable for direct or indirect, special, incidental or consequential damages (including loss of business or profits) whether based on contract, tort, or any other legal theory. Any legal action arising from the purchase or use of Medtronic Physio-Control shall be commenced within one year from the accrual of the cause of action, or be barred forever. In no event shall Medtronic Physio-Control liability under this warranty or otherwise exceed the greater of \$50,000 or the purchase price of the product giving rise to the cause of action.

**Troubleshooting**

Tables 5 - 10 provide troubleshooting checklists for non-technical users. If the AED Trainer requires service, please return the device to an authorized service center or to Medtronic Physio-Control.

**Table 5** Display troubleshooting

<b>Observation</b>	<b>Possible Cause</b>	<b>Corrective Action</b>
<b>1</b> Faded image, device remains functional.	<ul style="list-style-type: none"> <li>• Low battery.</li> </ul>	<ul style="list-style-type: none"> <li>• Replace batteries.</li> </ul>
<b>2</b> Blank screen, device remains functional.	<ul style="list-style-type: none"> <li>• Low battery.</li> <li>• LCD fault.</li> </ul>	<ul style="list-style-type: none"> <li>• Replace batteries.</li> <li>• Turn device on and off.</li> </ul>
<b>3</b> Blank screen, device does not function.	<ul style="list-style-type: none"> <li>• Incorrect battery placement.</li> <li>• Batteries depleted or damaged.</li> </ul>	<ul style="list-style-type: none"> <li>• Reinstall batteries in correct position.</li> <li>• Replace batteries.</li> </ul>
<b>4</b> ON/OFF light stays on when device is turned off; battery icon flashes, with 3-beeps and LOW BATTERY display	<ul style="list-style-type: none"> <li>• Battery pack batteries are low (D-cells).</li> </ul>	<ul style="list-style-type: none"> <li>• Replace batteries.</li> </ul>

**Table 6** Voice prompt troubleshooting

Observation	Possible Cause	Corrective Action
1 Low volume, device remains functional.	<ul style="list-style-type: none"> <li>• Low battery.</li> <li>• Speaker grill partially covered.</li> </ul>	<ul style="list-style-type: none"> <li>• Replace batteries.</li> <li>• Remove obstruction.</li> </ul>
2 No sound, device remains functional.	<ul style="list-style-type: none"> <li>• Speaker grill covered.</li> <li>• Speaker damaged.</li> </ul>	<ul style="list-style-type: none"> <li>• Remove blockage.</li> <li>• Return device to Medtronic Physio-Control for service.</li> </ul>
3 No sound, device does not function.	<ul style="list-style-type: none"> <li>• Batteries depleted or damaged.</li> <li>• Device damaged.</li> </ul>	<ul style="list-style-type: none"> <li>• Replace batteries.</li> <li>• Return device to Medtronic Physio-Control for service.</li> </ul>

**Table 7** LED (indicator lights) troubleshooting

Observation	Possible Cause	Corrective Action
1 Fading intensity.	<ul style="list-style-type: none"> <li>• Low battery.</li> </ul>	<ul style="list-style-type: none"> <li>• Replace batteries.</li> </ul>
2 Unlit when ON/OFF pressed, device does not function.	<ul style="list-style-type: none"> <li>• Batteries depleted or damaged.</li> <li>• Device damaged.</li> </ul>	<ul style="list-style-type: none"> <li>• Replace batteries.</li> <li>• Return device to Medtronic Physio-Control for service.</li> </ul>

**Table 8** Setup options troubleshooting

Observation	Possible Cause	Corrective Action
1 Messages and prompts out of sequence.	<ul style="list-style-type: none"> <li>• Incorrect setup options selected.</li> </ul>	<ul style="list-style-type: none"> <li>• Review setup procedures in Section 3.</li> </ul>
2 Messages and prompts incomplete.	<ul style="list-style-type: none"> <li>• Device damaged.</li> </ul>	<ul style="list-style-type: none"> <li>• Return device to Medtronic Physio-Control for service.</li> </ul>
3 CONNECT ELECTRODES message remains on screen after training electrodes are connected to the device.	<ul style="list-style-type: none"> <li>• Instructor did not press remote control to begin scenario sequence.</li> <li>• Damaged remote control.</li> <li>• IR sensor not working properly.</li> </ul>	<ul style="list-style-type: none"> <li>• Press the ELECTRODE PADS key once on the remote control to initiate analysis prompts.</li> <li>• Return device to Medtronic Physio-Control for service.</li> <li>• Clean/clear the sensor, if obstructed. OR</li> <li>• Return device to Medtronic Physio-Control for service.</li> </ul>

**Table 9** Remote control troubleshooting

Observation	Possible Cause	Corrective Action
1 Device not responding to remote control key presses.	<ul style="list-style-type: none"> <li>IR sensor is not receiving remote control signal.</li> <li>Remote control damaged.</li> </ul>	<ul style="list-style-type: none"> <li>Reposition remote control relative to the AED Trainer.</li> <li>Remove anything that may be blocking the IR sensor.</li> <li>Replace batteries.</li> <li>Replace remote control.</li> </ul>

**Table 10** Training electrodes troubleshooting

Observation	Possible Cause	Corrective Action
1 Training electrodes do not adhere to manikin.	<ul style="list-style-type: none"> <li>Adhesive contaminated.</li> </ul>	<ul style="list-style-type: none"> <li>Replace training electrodes.</li> </ul>
2 Training electrode connector does not plug into device.	<ul style="list-style-type: none"> <li>Training electrode connector damaged.</li> <li>Device connector damaged.</li> </ul>	<ul style="list-style-type: none"> <li>Replace training electrodes.</li> <li>Return device to Medtronic Physio-Control for service.</li> </ul>

**Cleaning**

Clean the AED Trainer and the remote control cable by wiping their surfaces with either:

- A lint-free, slightly damp cloth moistened with mild soap and water
- A lint-free, slightly damp cloth moistened with denatured alcohol.

Observe the following precautions when cleaning the AED Trainer:

- Do not immerse or soak the AED Trainer or the cable.
- Do not use bleach, bleach dilution, or phenolic compounds.
- Do not steam or gas sterilize.

**Product Recycling Information**

Recycle the device at the end of its useful life.

- **Recycling Assistance**  
Recycle the device according to national and local regulations. Contact your local Physio-Control representative for assistance.
- **Preparation**  
The device should be clean and free of contaminants prior to recycling.
- **Packaging**  
Recycle packaging according to local and national regulations.

## Specifications

Table 11 lists the specifications for the AED Trainer. Table 12 lists the specifications for the remote control.

**Table 11** AED Trainer specifications

General	Device designed for low impact, low stress environments. For use in temperature-controlled areas protected from precipitation. Capable of withstanding heavy usage and prolonged periods of operation.
Size	10.2 cm x 26.5 cm x 29.5 cm (4.0 in x 10.5 in x 11.4 in) approximate.
Weight	2.1 kg (4.6 lbs)
Batteries	6 volts/4 cells, range 3.2 Vdc ~ 6.5 Vdc.  Four non-rechargeable D-cell alkaline batteries. New batteries will provide not less than 100 hours of continuous operation under normal indoor-environment conditions.
Buttons	ON/OFF, ANALYZE, SHOCK, Up arrow, Right arrow
Screen Display	5 x 7 dot matrix liquid crystal display with two lines of 20 characters per line for text messages.
Speaker	Volume output: (average / maximum) <ul style="list-style-type: none"> <li>• Hi: 100dB / 108dB</li> <li>• Med: 95db / 105dB</li> <li>• Low: 90dB / 101dB</li> </ul>
Operating Temperature	3° - 38° C (37° - 100° F)
Storage Temperature	-10° - 60° C (14° - 140° F) (remove batteries for storage)
Water Resistance	Spillage resistance per IEC 601-1, part 44.3

**Table 12** Remote control specifications

Transmission	Wireless infrared signal. Range, 3 meters (10 feet), max.  82-inch optional cable attachment.
Size	4.57 cm x 3.38 cm x 1.65 cm (1.8 in x 1.33 in x .65 in)
Weight (without batteries)	32 grams (1.13 oz)
Batteries	3 volts supplied from two AAA alkaline batteries.
Buttons	7-key membrane switch pad. Icon-labeled for the following functions: NO SHOCK, SERVICE WARNING / REQUIRED, ELECTRODE PAD CONTACT, MOTION, LOW / REPLACE BATTERY, CPSS, PAUSE.
Operating Temperature	3° - 38° C (37° - 100° F)
Storage Temperature	-10° - 60° C (14° - 140° F) (remove batteries for storage)
Water Resistance	Spillage resistance per IEC 601-1, part 44.3

**Accessories**

The following accessories are available for the AED Trainer:

**Table 13** AED Trainer accessories

<b>Accessory</b>	<b>MPC Part Number</b>
AED Trainer training electrodes	3006007
Soft Case	3012607
Replacement remote control and cable	3012697
Battery pack	3012698
Analyze Key Cover Labels	3012729
AED Instruction Reference Card	3011111
LIFEPAK 500T AED Training System Operating Instructions	3012699

## **6. REFERENCE INFORMATION**

The following page contains reference information for remote control buttons and AED Trainer setup procedures. This page may be photocopied.

**LIFEPAK® 500T AED TRAINING SYSTEM**  
**QUICK START Reference Card**



**QUICK START PROCEDURE**

- 1 Turn AED Trainer on.
- 2 Press PAUSE button on the remote control.
- 3 Select Shock Protocol from the Table below.
- 4 Press PAUSE again to confirm shock protocol. AED Trainer will turn itself off.
- 5 You are now ready to begin a training session. Use the remote control to create troubleshooting situations. Refer to the opposite side of this card for details.
- 6 Once the AED is turned on, the CONNECT ELECTRODES message appears (unless turned off in setup). Press ELECTRODE PADS on the remote control to advance to analysis.

**Note:** The AED Trainer powers on with the last shock protocol selected during the previous use.

For detailed instructions, refer to the LIFEPAK 500T AED TRAINING SYSTEM Operating Instructions.

Remote Control Button	AED Trainer Shock Protocol	Shock Sequence	AHA <sup>a</sup> Heartsaver™ Scenario	ARC <sup>b</sup> AED Scenarios
F1	Fixed #1	SSSSN	1, 5	1, 3
F2	Fixed #2	NNNN	4, 6	NA
F3	Fixed #3	SSNNNN	2, 3, 8	NA
F4	Fixed #4	SSNSSN	7	NA
C1*	Custom #1	SSSSSSSS	NA	NA
C2*	Custom #2	SSSSSSSS	NA	2, 4 <sup>c</sup>

<sup>a</sup> American Heart Association. <sup>b</sup> American Red Cross S: Shock Advised N: No Shock Advised. <sup>c</sup> These shock protocols (SNSN) can be customized in the AED Trainer. \*Custom settings may be changed in the set up mode (refer to Operating Instructions Manual).

**LIFEPAK® 500T AED TRAINING SYSTEM**  
**QUICK START Reference Card**



**QUICK START PROCEDURE**

- 1 Turn AED Trainer on.
- 2 Press PAUSE button on the remote control.
- 3 Select Shock Protocol from the Table below.
- 4 Press PAUSE again to confirm shock protocol. AED Trainer will turn itself off.
- 5 You are now ready to begin a training session. Use the remote control to create troubleshooting situations. Refer to the opposite side of this card for details.
- 6 Once the AED is turned on, the CONNECT ELECTRODES message appears (unless turned off in setup). Press ELECTRODE PADS on the remote control to advance to analysis.








**Note:** The AED Trainer powers on with the last shock protocol selected during the previous use.

For detailed instructions, refer to the LIFEPAK 500T AED TRAINING SYSTEM Operating Instructions.

Remote Control Button	AED Trainer Shock Protocol	Shock Sequence	AHA <sup>a</sup> Heartsaver™ Scenario	ARC <sup>b</sup> AED Scenarios
F1	Fixed #1	SSSSN	1, 5	1, 3
F2	Fixed #2	NNNN	4, 6	NA
F3	Fixed #3	SSNNNN	2, 3, 8	NA
F4	Fixed #4	SSNSSN	7	NA
C1*	Custom #1	SSSSSSSS	NA	NA
C2*	Custom #2	SSSSSSSS	NA	2, 4 <sup>c</sup>

<sup>a</sup> American Heart Association. <sup>b</sup> American Red Cross S: Shock Advised N: No Shock Advised. <sup>c</sup> These shock protocols (SNSN) can be customized in the AED Trainer. \*Custom settings may be changed in the set up mode (refer to Operating Instructions Manual).








### REMOTE CONTROL OPERATION

Button	Function
	Press to change any shock decision to NO SHOCK ADVISED. Function is active only during PUSH ANALYZE and STAND CLEAR, ANALYZING NOW.
	Press to toggle the training electrodes “on” or “off” the manikin. This feature is active when the training electrodes are connected to the AED Trainer.
	Press to toggle MOTION DETECTED “on” and “off.” This feature is active during analysis only.
	Press once to activate a service warning (red wrench). Press twice: wrench flashes and CALL SERVICE is displayed and device will not operate. To clear, turn off the AED TRAINER, or remove the battery pack.
	Press once to activate LOW BATTERY. Press twice to activate REPLACE BATTERY. Press three times to simulate failed battery. To clear, turn off the AED Trainer, or remove the battery pack.
	Press to simulate device detection of a shockable rhythm. CPSS is disabled when AUTO ANALYZE 2 is selected.
	Press any time to suspend device operation. Press again to resume operation at point of interruption. In PAUSE mode, press F1, F2, F3, F4, C1, or C2 to change shock protocol. Press PAUSE again to accept change and turn off AED Trainer.

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### REMOTE CONTROL OPERATION

Button	Function
	Press to change any shock decision to NO SHOCK ADVISED. Function is active only during PUSH ANALYZE and STAND CLEAR, ANALYZING NOW.
	Press to toggle the training electrodes “on” or “off” the manikin. This feature is active when the training electrodes are connected to the AED Trainer.
	Press to toggle MOTION DETECTED “on” and “off.” This feature is active during analysis only.
	Press once to activate a service warning (red wrench). Press twice: wrench flashes and CALL SERVICE is displayed and device will not operate. To clear, turn off the AED TRAINER, or remove the battery pack.
	Press once to activate LOW BATTERY. Press twice to activate REPLACE BATTERY. Press three times to simulate failed battery. To clear, turn off the AED Trainer, or remove the battery pack.
	Press to simulate device detection of a shockable rhythm. CPSS is disabled when AUTO ANALYZE 2 is selected.
	Press any time to suspend device operation. Press again to resume operation at point of interruption. In PAUSE mode, press F1, F2, F3, F4, C1, or C2 to change shock protocol. Press PAUSE again to accept change and turn off AED Trainer.

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