

# QUICK REFERENCE GUIDE



## POWERHEART® AED

G3 PLUS 9390A AND 9390E

70-00915-01 F



AT THE HEART OF SAVING  
LIVES™

Information in this document is subject to change without notice. Names and data used in the examples are fictitious unless otherwise noted.

## **CE Mark Declaration**

The CE marking of conformity indicates that the device having this symbol on its immediate label meets the applicable requirements of the European Medical Device Directive.

## **Trademark Information**

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## **Patents**

This device is covered by the following U.S. and foreign patents:

5,792,190; 5,999,493; 5,402,884; 5,579,919; 5,749,902; 5,645,571; 6,029,085; 5,984,102; 5,919,212; 5,700,281; 5,891,173; 5,968,080; 6,263,239; 5,797,969; D402,758; D405,754; 6,088,616; 5,897,576; 5,955,956; 6,083,246; 6,038,473; 5,868,794; 6,366,809; 5,474,574; 6,246,907; 6,289,243; 6,411,846; 6,480,734; 6,658,290; 5,850,920; 6,125,298; EP0725751; EP0757912; EP00756878

Other U.S. and foreign patents pending.



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# 1

## Product Information and Safety

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### Before Operating the Powerheart G3 AED:

- ◆ Become familiar with the various safety alerts listed in the *Safety* chapter of the *Operator and Service Manual*.
- ◆ Safety alerts identify potential hazards using symbols and words to explain what could potentially harm you, the patient, or the Powerheart G3 AED.

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## Contact information

### Inside the United States:

To order additional Powerheart G3 AEDs or accessories, contact Cardiac Science Customer Care:

- ◆ Toll Free (USA): 1.800.426.0337 (option 2)
- ◆ Telephone: +1.262.953.3500 (option 2)
- ◆ Fax: +1.262.953.3499
- ◆ Email: [care@cardiacscience.com](mailto:care@cardiacscience.com)

Cardiac Science provides 24-hour telephone technical support. You can also contact Technical Support through fax, email, or live web chat.

There is no charge to the customer for a technical support call. Please have the serial and model numbers available when contacting Technical Support. (The serial and model numbers are located on the underside of the AED.)

- ◆ Toll Free (USA): 1.800.426.0337 (option 1)
- ◆ Telephone: +1.262.953.3500 (option 1)
- ◆ Fax: +1.262.798.5236
- ◆ Email: [techsupport@cardiacscience.com](mailto:techsupport@cardiacscience.com)
- ◆ Web site: <http://www.cardiacscience.com>

### Outside the United States:

Contact your local Cardiac Science representative to order devices or accessories and to receive technical support for your AED products.

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## Product models

This guide is for Powerheart G3 Plus model 9390E and Powerheart G3 Plus Automatic 9390A AED models. They share a basic set of features and differences are noted throughout the manual.

## Product references

For purposes of retaining simple, clear instructions in this manual, note the product references used. Features, specifications, operating instructions and maintenance common to product models will be referred to as:

“Powerheart G3 AED”, “AED”, or “device” refers to both Powerheart G3 model 9390E and Powerheart G3 Automatic model 9390A AEDs unless otherwise noted.

## Warranty information

The Powerheart G3 AED customer documentation and any and all information contained herein do not constitute any warranty as to the Powerheart G3, Powerheart G3 Automatic or any related products in any manner whatsoever. The *Limited Warranty* chapter in the *Operator and Service Manual* serves as the sole and exclusive warranty provided by Cardiac Science regarding Powerheart G3 AED products.

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## Safety terms and definitions

The symbols shown below identify potential hazard categories. The definition of each category is as follows:



### **DANGER**

This alert identifies hazards that will cause serious personal injury or death.



### **WARNING**

This alert identifies hazards that may cause serious personal injury or death.



### **Caution**

This alert identifies hazards that may cause minor personal injury, product damage, or property damage.



# 2 Getting Started

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This section presents information on unpacking and setting up the AED.

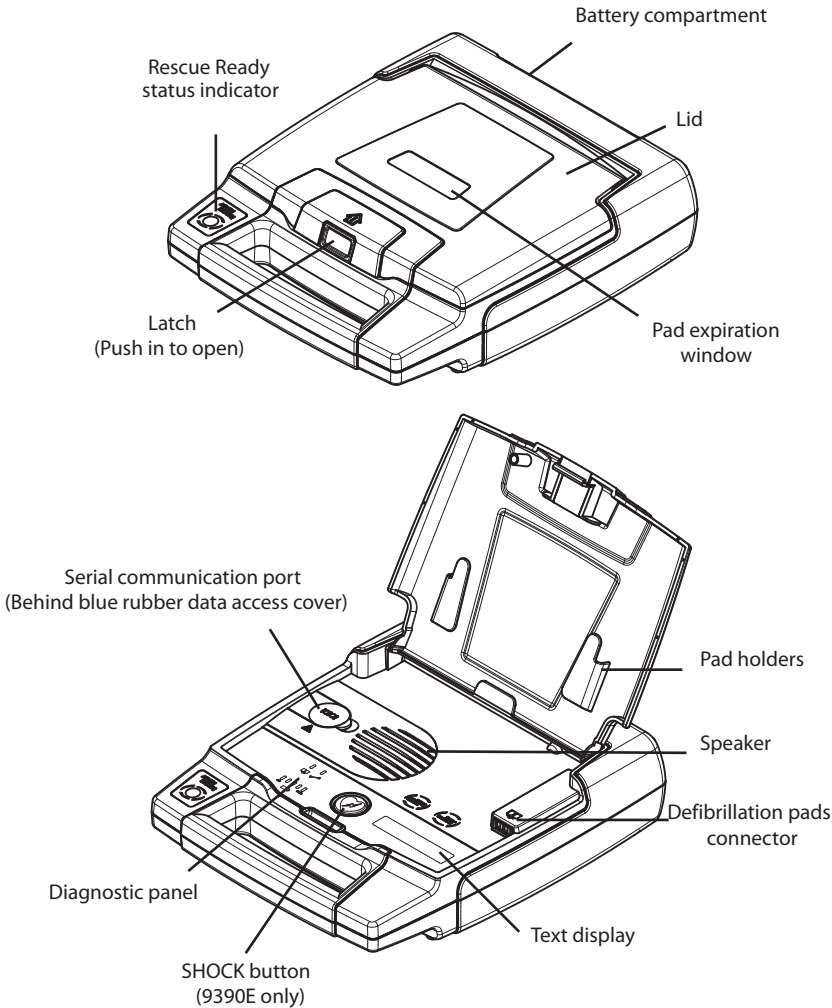
## Unpacking and inspecting

Every attempt is made to ensure your order is accurate and complete. However, to be sure that your order is correct, verify the contents of the box against your packing slip.

If you have any questions about your order, contact Customer Care (see *Contact information* on page 1-2).

# AED parts

The following drawings show the AED parts and their locations.



## AED modes

### Operating mode

Defined as having the battery installed and the lid open. This is the mode the AED would be in during an actual rescue situation.

### Standby mode

When the battery is installed, but the lid is closed. In this mode the AED is not being used in a rescue. The device will conduct its routine self-tests to ensure proper operation.

### Storage mode

When the battery is removed, such as during shipping or transport. With the battery removed, the AED is unable to perform self-tests or rescues.

## Environmental operating and standby conditions

See the *Technical Data* chapter in the *Operator and Service Manual*.



### Caution: Temperature Extremes.

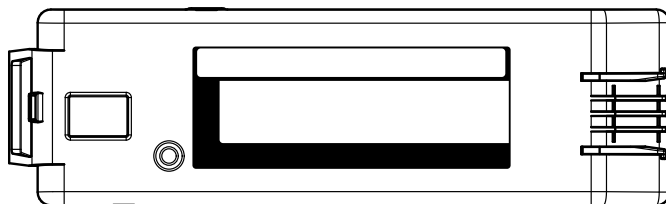
Exposing the AED to extreme environmental conditions outside of its operating parameters may compromise the ability of the AED to function properly. The Rescue Ready<sup>®</sup> daily self-test verifies the impact of extreme environmental conditions on the AED. If the daily self-test determines environmental conditions outside of the AED's operating parameters, the Rescue Ready indicator could change to red (not Rescue Ready) and the AED may issue a "SERVICE REQUIRED" alert to prompt the user to move the AED to environmental conditions within the acceptable operating parameters at once.

### Shipping and transport conditions

For up to 1 week. See the *Technical Data* chapter in the *Operator and Service Manual*.

## Intellisense battery

Intellisense batteries contain an integrated memory chip that automatically stores important usage information, enabling the battery to maintain a complete history of its operating life. The actual battery history can be reviewed using the Rescuelink software.



This history includes:

- ◆ Battery identification
- ◆ Battery type
- ◆ Original date of installation in an AED
- ◆ Number of charges completed
- ◆ Time in operation (hours:minutes)
- ◆ Days of standby operation
- ◆ Battery capacity remaining



### **WARNING! Battery is Not Rechargeable.**

Do not attempt to recharge the battery. Any attempt to recharge the battery may result in an explosion or fire hazard.



### **Caution: Lithium Sulfur Dioxide Battery.**

Pressurized contents: never recharge, short circuit, puncture, deform, or expose to temperatures above 65°C (149°F). Remove the battery when discharged.



### **Caution: Battery Disposal.**

Recycle or dispose of the lithium battery in accordance with all federal, state and local laws. To avoid fire and explosion hazard, do not burn or incinerate the battery.



**Caution: Use only Cardiac Science Approved Equipment.**

Using batteries, pads, cables, or optional equipment other than those approved by Cardiac Science may cause the AED to function improperly during a rescue.

**Battery operating life**

The battery operating life depends on the type of battery, actual usage and environmental factors.

A new battery provides:

- ◆ A minimum of 14 hours (18 hours typical) of device operating time at 20°C to 30°C ambient temperature with no shocks delivered, OR
- ◆ A minimum of 9 hours of device operating time at 0°C ambient temperature with no shocks delivered, OR
- ◆ A minimum of 9 hours of device operating time at 50°C ambient temperature with no shocks delivered, OR
- ◆ up to 290 shocks (typical)

**Table 2-1: Normal battery life**

Model	Estimated Shelf Life (from date of manufacture)	Full Operational Replacement Guarantee (from date of installation)	Typical Shocks
9146 Lithium	5 Years	4 Years	up to 290

**Note:** The battery operating life depends on the type of battery, device settings, actual usage, and environmental factors. Battery was tested with G3 Plus device with Standard prompt set and CPR set to 60 seconds.

## Battery shelf life

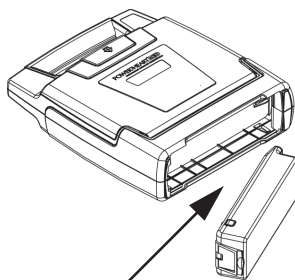
The batteries have a shelf life of five years from the date of manufacture. Shelf life is defined as the length of time a battery can be stored at room temperature, prior to installation into AED, and still meet the specifications under battery operating life.

**Note:** Storing the battery outside its specific range (0-50°C) will decrease battery life.

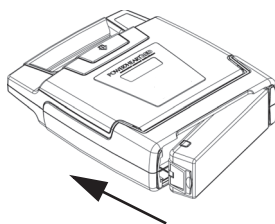
## Battery installation

To install the battery:

1. With the label on the battery facing the AED battery compartment, insert the battery as shown in the drawing.



2. Push the latched end of the battery firmly into the AED, as shown in the drawing, until the battery snaps into place. The exposed side of the battery should be flush with the outside of the AED case.



3. Wait a few seconds and then open the lid for 5 seconds to initiate a self-test.

If the battery is installed properly:

- The Smartgauge battery indicator LEDs illuminate
- The Rescue Ready status indicator turns green.



If service is required, the Service indicator illuminates instead. Contact Cardiac Science Technical Support (see [Contact information](#) on page 1-2) or outside the U.S., your local Cardiac Science representative.

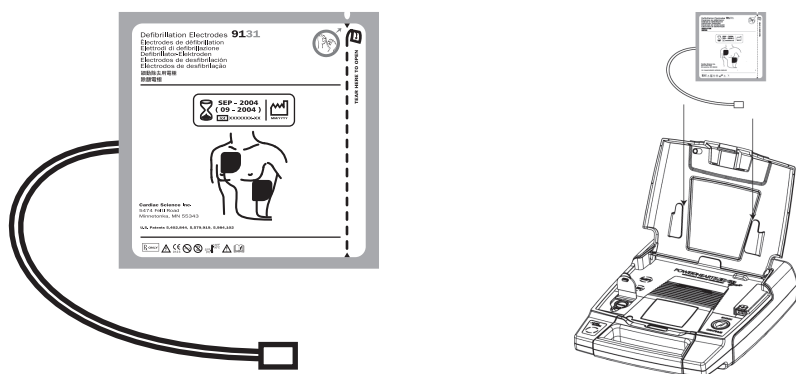
## Defibrillation pads

The defibrillation pads come in a ready-to-use, sealed package containing one pair of self-adhesive pads with an attached cable and connector. The pads are disposable and should be discarded after each rescue.

The pads have a limited shelf life and should not be used beyond the expiration date. Keep a fresh, unopened pair of pads plugged into the AED at all times. Refer to the pad package label for operation temperatures.

An audible and visual alert will indicate after the self-test if the pads are missing, unplugged, or damaged.

**Note: Store pads at room temperature.**



### Caution: Use only Cardiac Science Approved Equipment.

Using batteries, pads, cables, or optional equipment other than those approved by Cardiac Science may cause the AED to function improperly during a rescue.



### Caution: Possible Improper AED Performance.

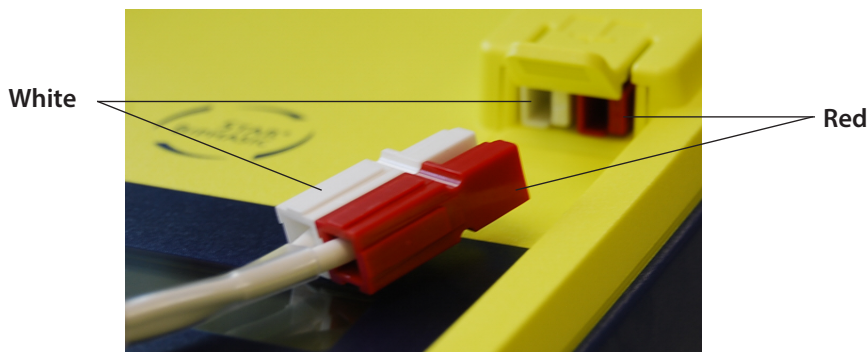
Using pads that are damaged or expired may result in improper AED performance.



## Pad installation

To install the pads:

1. Open the lid of the AED.
2. Place the pad package into the lid so that the expiration label is visible through the clear window on the lid. The expiration date of the pads will then be readable without opening the lid of the AED.
3. Match the color of the connectors (red to red), then plug the pad connector into the AED case as shown in the photograph.



Once the pad connector is plugged into AED, the PAD indicator should extinguish.

4. Tuck the excess cable length in the bottom holder. With the pad package completely secured to the AED lid, close the lid.
5. Make sure the expiration date is visible through the clear window of the lid and check to make sure that the STATUS INDICATOR is GREEN. If the pads are not installed properly, the STATUS INDICATOR will be RED. Contact Cardiac Science Technical Support (see [Contact information](#) on page 1-2) or outside the U.S., your local Cardiac Science representative.

## Directions for use



### **WARNING! Do not reuse pads.**

Used pads may not adhere properly to the patient. Improper pad adhesion may result in skin burns. Improper pad adhesion may result in improper AED performance. Used pads may cause patient-to-patient contamination.



### **WARNING! Reduced therapy delivery.**

Failure to remove blue liner completely could impact therapy delivery.



### **Caution. Short-term use only. Not for pacing.**

DO NOT open defibrillation pads package until ready to use. Short term use only.

Pads are not intended for use in pacing.



### **Caution. Equipment Damage.**

Do not pull on the lead wire to separate the pads from the blue liner.

**Note:** Store pads at room temperature.

**Note: Pads are intended for adult use.**

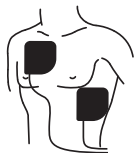
1. Ensure skin site is clean and dry.
2. Tear open the foil package and remove pads.
3. Separate one pad from the blue liner by peeling from the tabbed corner.



**Note: DO NOT pull on the lead wires.**

4. Place pad on skin in either location shown.
5. Separate the second pad from blue liner by peeling from the tabbed corner.

**Note: DO NOT pull on the lead wires.**



6. Place the second pad on the opposite location as shown.

# 3

## How to Perform a Rescue

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Read the *Operator and Service Manual* before using this device. Follow the instructions provided in this chapter in the order given.

This section presents information about how to use the AED to perform a rescue.

These are the general steps in performing a rescue:

1. Assess the patient.
2. Prepare the patient.
3. Place the defibrillation pads.
4. Analyze the patient's ECG.
5. Deliver a defibrillation shock.
6. Administer CPR.

## Warnings and cautions

The following cautions must be observed to prevent problems during the rescue.



### **DANGER! Fire and Explosion Hazard**

To avoid possible fire or explosion hazard, do not operate the AED:

- In the presence of flammable gases
- In the presence of concentrated oxygen
- In a hyperbaric chamber



### **WARNING! Shock Hazard and Possible Equipment Damage**

Defibrillation shock current flowing through unwanted pathways is potentially a serious electrical shock hazard and potential damage to the equipment. To avoid this hazard during defibrillation abide by all of the following:

- Do not touch the patient, unless performance of CPR is indicated
- Do not touch metal objects in contact with the patient
- Keep defibrillation pads clear of other pads or metal parts in contact with patient
- Disconnect all non-defibrillator proof equipment from the patient before defibrillation



### **WARNING! Electric Shock and Fire Hazard**

Do not connect any telephones or unauthorized connectors to the socket on this equipment.



### **WARNING! Do not reuse pads.**

Used pads may not adhere properly to the patient. Improper pad adhesion may result in skin burns. Improper pad adhesion may result in improper AED performance. Used pads may cause patient-to-patient contamination.



### **Caution: Use only Cardiac Science Approved Equipment**

Using batteries, pads, cables, or optional equipment other than those approved by Cardiac Science may cause the AED to function improperly during a rescue.



### **Caution: Possible Improper AED Performance**

Using pads that are damaged or expired may result in improper AED performance.



### **Caution: Serial Communication Cable**

The AED will not function during a rescue when the serial communication cable is connected to its serial port. When the serial communication cable is connected to the AED during a rescue, the prompt "Remove cable to continue rescue" will be heard until you remove the serial communication cable from the AED.



### **Caution: Possible Radio Frequency (RF) Susceptibility**

RF susceptibility from cellular phones, CB radios, FM 2-way radios and other wireless devices may cause incorrect rhythm recognition and subsequent shock advisory. When attempting a rescue using the AED, do not operate wireless radiotelephones within 1 meter of the AED – turn power OFF to the radiotelephone and other like equipment near the incident.



### **Caution: Possible Interference with Implanted Pacemaker**

Therapy should not be delayed for patients with implanted pacemakers and a defibrillation attempt should be made if the patient is unconscious and not breathing. The AED has pacemaker detection and rejection, however with some pacemakers the AED may not advise a defibrillation shock.

When placing pads:

- Do not place the pads directly over an implanted device.
- Place the pad at least an inch from any implanted device.



### **Caution: Moving the Patient During a Rescue**

During a rescue attempt, excessive jostling or moving of the patient may cause AEDs to improperly analyze the patient's cardiac rhythm. Stop all motion or vibration before attempting a rescue.

## Step 1: Assess the patient

Determine that the patient is over 8 years of age or weighs more than 55 pounds (25 kg) and is both:

- ◆ Unresponsive
- ◆ Not breathing

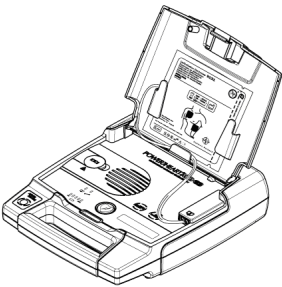
DO NOT delay therapy to determine the patient’s exact age or weight. See the directions for use accompanying pediatric pads to replace adult pads with pediatric pads. If you do not have pediatric pads, use adult pads to apply therapy.

CALL EMERGENCY MEDICAL SERVICES!

**Note:** When the patient is a child under 8 years of age or weighs less than 55 pounds (25kg), the AED should be used with the Model 9730 Pediatric Attenuated Defibrillation Pads. If you do not have pediatric pads, use adult pads to apply therapy.


## Step 2: Prepare the patient

1. Place the AED next to the patient so the lid is on top.  
**Note:** Lay the AED flat (horizontal) as shown.
2. Open the AED lid.
3. Wait until the LEDs illuminate.



When the AED prompts...	Do this...
"Stay calm. Follow these voice instructions. Make sure 911 is called now."	Call emergency services.
"Begin by exposing the patient's bare chest and torso. Remove or cut clothing if needed."	Remove clothing from the patient's chest. Ensure that the patient's skin is clean and dry. Dry the patient's chest and shave excessive hair if necessary.

### Step 3: Place pads

When the AED prompts...	Do this...
"When patient's chest and torso are exposed, remove square foil package from lid of AED. Tear open foil package across dotted line and remove pads."	<p>Keeping the pads connected to the AED, tear open the package.</p> <p>Remove the pads from the package.</p> <p>Leave the package attached to the pad wires.</p>
"Next, separate one of the white pads completely from blue plastic liner. Begin peeling from the tabbed corner."	<div>An illustration showing two hands peeling a white rectangular pad from a blue plastic liner. The pad is being pulled away from the bottom-left corner, which has a tabbed edge. Wires are attached to the pad.</div> <p>With a firm, steady pull, peel one pad away from the blue plastic liner.</p> <p>It does not matter which pad to use.</p> <p><b>Note:</b> Do not pull on the lead wires.</p>

**Note:** Cardiac Science's standard defibrillation pads are non-polarized and can be placed in either position as shown on the pad package.

## Step 4: Analyze the heart rhythm

When the AED prompts...	Do this...
“Do Not Touch Patient. Analyzing Heart Rhythm. Please Wait.” The AED begins analyzing the cardiac rhythm of the patient.	Do not touch the patient. Wait for the next prompt.

During the analysis phase, you may hear one or more of these prompts:

If the AED prompts...	This is the problem...	Do this...
“Make sure pad connector is plugged into AED.”	The pads are disconnected from the AED.	Ensure that the connector is properly plugged into the AED.
“Press pads firmly to patient’s bare skin.”	The pads are not properly placed or are loose.	Ensure that pads are firmly placed on clean, dry skin.
“Analysis interrupted. Stop patient motion.” The AED restarts the analysis.	The patient is excessively jostled or there is a strong electromagnetic emitting device nearby (within 5 meters).	Remove the electronic device or stop the excessive motion.



## Step 5: Deliver a shock

When the AED prompts...	Do this...
"Preparing shock. Move away from the patient."	Ensure that no one is touching the patient.
For the Powerheart AED G3:  When the AED is ready to deliver a defibrillation shock, the Shock button flashes.  "Press red flashing button to deliver shock"	Ensure that no one is touching the patient. Press the Shock button.  If you do not press the Shock button within 30 seconds of hearing the prompt, the AED disarms the charge and prompt you to start CPR.
For the Powerheart AED G3 Automatic: "Shock will be delivered in three, two, one." The AED delivers a shock.	Ensure that no one is touching the patient.
After the AED delivers the defibrillation shock: "Shock delivered."	Wait
"It is now safe to touch the patient."	Wait

When the AED is charged, it continues to analyze the patient's heart rhythm. If the rhythm changes and a shock is no longer needed, the AED prompts, "Rhythm changed. Shock cancelled," and then prompts you to start CPR.

## Step 6: Administer CPR



After the AED delivers a shock or detects a non-shockable rhythm, it enters CPR mode.

**Note:** Your AED may have either Traditional (compressions and breaths) CPR (Table 3-1) or compressions-only CPR (Table 3-2 on page 3-9) enabled.



**WARNING! Equipment not functioning.**  
If the AED stops functioning during a rescue, continue to perform CPR as needed until EMS personnel arrive.

**Table 3-1: Traditional CPR (compressions and breaths)**

When the AED prompts...	Do this...
"When instructed give patient 30 rapid compressions. Then give two breaths."	Give the patient chest compressions: Place the heel on one hand on the chest between the nipples. Place the heel of the other hand on top of the first hand. Lean over the patient, keeping your elbows straight. Press the patient's chest down rapidly one-third the depth of the chest, then release.
"Start CPR."	Perform chest compressions as directed by the AED.
"Stop compressions."	Stop the chest compressions.
"Give breath." (repeated)	Give the patient two breaths.
"Continue with compressions."	Give the patient chest compressions, as directed above. Follow the countdown timer on the text display for the number of compressions and breaths.

Table 3-2: Compressions-only CPR

When the AED prompts...	Do this...
"Place heel of one hand on center of chest between nipples. Place heel of other hand directly on top of first hand. Lean over patient with elbows straight. Press the patient's chest down rapidly one-third depth of chest, then release."	<p>Give the patient chest compressions:</p> <p>Place the heel on one hand on the chest between the nipples.</p> <p>Place the heel of the other hand on top of the first hand.</p> <p>Lean over the patient, keeping your elbows straight.</p> <p>Press the patient's chest down rapidly one-third the depth of the chest, then release.</p>
"Start CPR."	Perform chest compressions as directed by the AED.

This cycle continues until the CPR time expires. At the end of CPR, the AED prompts, "Stop CPR". The AED returns to the ECG Analysis Mode (see [Step 4: Analyze the heart rhythm](#) on page 3-6).

If the patient is conscious and breathing normally, leave the pads on the patient's chest connected to the AED. Make the patient as comfortable as possible and wait for Emergency Medical Services (EMS) personnel to arrive.

## Step 7: Prepare the AED for the next rescue

After transferring the patient to EMS personnel, prepare the AED for the next rescue:

1. Retrieve the rescue data stored in the internal memory of the AED.
2. Use Rescuelink software installed on a PC (see the *Data Management* chapter in the *G3 Plus Operator and Service Manual*).
3. Connect a new pair of pads to the AED (see *Pad installation* on page 2-9).
4. Close the lid.
5. Verify that the status indicator on the AED handle is green.









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