



AED Battery Exchange

Save a Life: Save the Environment: Save Money



9146-ABE Battery

For use with Cardiac Science™ Powerheart® G3
Models: 9390A, 9390E, 9300A, 9300E

Operation Manual

Revision 3.5

Product models

The 9146-ABE is indicated for use with the Cardiac Science™ Powerheart® G3, models 9390A, 9390E, 9300A, and 9300E.

Please see the Cardiac Science™ Powerheart® G3, models 9390A, 9390E, 9300A, and 9300E Operator and Service Manual for complete information on AED use.

Indications for use

The automated external defibrillator (AED) battery supplies power to an AED as required during self maintenance, automated diagnoses, and defibrillation. The 9146-ABE is indicated for use with the Cardiac Science™ Powerheart® G3, models 9390A, 9390E, 9300A, and 9300E.

Contraindications

Automated external defibrillators should not be used when a patient is conscious or breathing normally.

Battery specifications

Battery Type: 12VDC, 7.5Ah, lithium sulfur dioxide, primary cells.

Lithium Content: approximately 9.2 g.

Capacity: Typically 290 shocks or 16 hours of operating time at 25°C (77°F). Actual battery operating life depends on device settings, usage, and environmental factors.

Charge Time: A new battery typically takes 10 seconds to charge the AED to maximum energy. Batteries with reduced capacity will require additional time to charge the AED.

Shelf Life (prior to insertion): A minimum of 5 years from date of refurbishing when stored from 20° to 30°C (68° to 86°F), 10% to 75% RH (non-condensing).

Standby Life (after insertion/between use): 4 years when operated from 20° to 30°C (68° to 86°F), 10% to 75% RH (non-condensing).

Operating Conditions: 0°C to 50°C (32° to 122°F), 0% to 95% RH (non-condensing).

Safety Standards: IEC 60601-1, IEC 60601-1-2, IEC 60601-2-4

Enclosure Protection: IP24 when housed in AED.

Transportation: UN38.3 tested: T1 – Altitude, T2 – Thermal, T3 – Vibration, T4 – Shock, T5 – External Short

Important Warnings and Reminders!!



Caution: Federal law restricts this device to sale by or on the order of a physician or practitioner licensed by law of the state in which he/she practices to use the device.



Battery is not rechargeable. Do not attempt to recharge.



Do not expose battery to high heat or open flames. Do not incinerate battery.



Waste Electrical and Electronic Equipment (WEEE). Separate collection for waste electrical and electronic equipment.



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

- ⚠ Pressurized contents: Do not short circuit, puncture, deform, or expose to temperatures above 65°C (149°F).
- ⚠ Not tested for airborne applications
- ⚠ Inspect battery contacts on insertion into AED and annually. Clean contacts with gold contact cleaner if any sign of oxidation or corrosion is present.
- ⚠ Always keep a spare battery on hand in addition to the battery currently in operation.
- ⚠ Use one of these solutions to clean the plastic housing of the battery: soapy water, denatured ethanol, or 91% isopropyl alcohol.

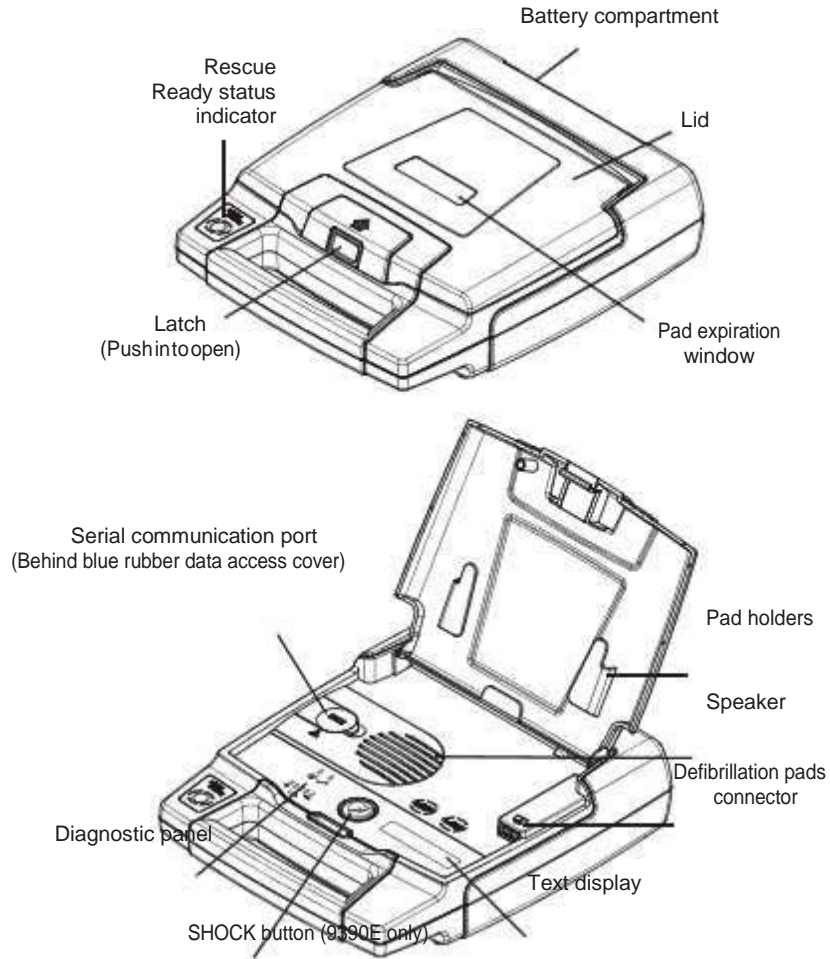


If the AED indicates that the battery is low and needs to be replaced please recycle or dispose of the lithium battery in accordance with all federal, country, state, and local laws. Help our environment, recycle, and [send your depleted batteries to AED Battery Exchange](#):

AED Battery Exchange
1000 Brown Street, Ste 206
Wauconda, IL 600487

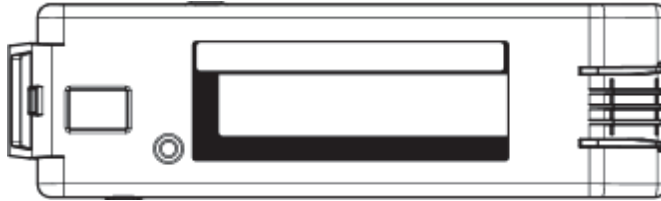
AED Parts

The following drawings show the AED parts and their locations.



Battery memory and history

ABE 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.



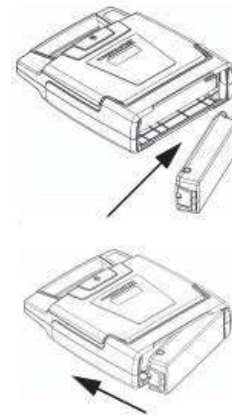
This history includes:

- 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

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.



AED Battery Exchange, LLC
1000 Brown Street, Suite #206
Wauconda, IL 60084



AED Battery Exchange

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G5-ABE Battery

For use with Cardiac Science™ Powerheart® G5
Models: G5A-80A, G5A-80C, G5S-80A, G5S-80C

Operation Manual

Revision 3.4

Product model

The G5-ABE is indicated for use with the Cardiac Science™ Powerheart® G5, models G5A-80A, G5A-80C, G5S-80A, and G5S-80C.

Please see the Cardiac Science™ Powerheart® G5, models G5A-80A, G5A-80C, G5S-80A, and G5S-80C User's Guide for complete information on AED use.

Indications for use

The automated external defibrillator (AED) battery supplies power to an AED as required during self maintenance, automated diagnoses, and defibrillation. The G5-ABE is indicated for use with the Cardiac Science™ Powerheart® G5, models G5A-80A, G5A-80C, G5S-80A, and G5S-80C.

Contraindications

Automated external defibrillators should not be used when a patient is conscious or breathing normally.

Battery specifications

Battery Type: 12VDC, 7.5Ah, lithium sulfur dioxide, primary cells.

Lithium Content: approximately 9.2 grams

Capacity: Typically 420 shocks or 16 hours of operating time at 25°C (77°F). Actual battery operating life depends on device settings, usage, and environmental factors.

Charge Time: Initiation of rhythm analysis to ready to shock: 15 seconds (typical); 45 seconds (maximum) With a fully charged battery. Initiation of rhythm analysis to ready to shock, used battery: 15 seconds typical); 45 seconds (maximum) with a battery that has been used for 15 shocks.

Shelf Life (prior to insertion): A minimum of 5 years from date of refurbishing when stored from 20° to 30°C (68° to 86°F), 10% to 75% RH (non-condensing).

Standby Life (after insertion/between use): 4 years when operated from 20° to 30°C (68° to 86°F), 10% to 75% RH (non-condensing).

Operating Conditions: 0°C to 50°C (32° to 122°F), 0% to 95% RH (non-condensing). Lithium Content: approximately 9.2 g.

Safety Standards: IEC 60601-1, IEC 60601-1-2, IEC 60601-2-4

Enclosure Protection: IP55 when housed in AED.

Transportation: UN38.3 tested: T1 – Altitude, T2 – Thermal, T3 – Vibration, T4 – Shock, T5 – External Short

Important Warnings and Reminders!!



Caution: Federal law restricts this device to sale by or on the order of a physician or practitioner licensed by law of the state in which he/she practices to use the device.



Battery is not rechargeable. Do not attempt to recharge.



Do not expose battery to high heat or open flames. Do not incinerate battery.



Waste Electronic Electrical Equipment (WEEE). Separate collection for waste electrical and electronic equipment



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

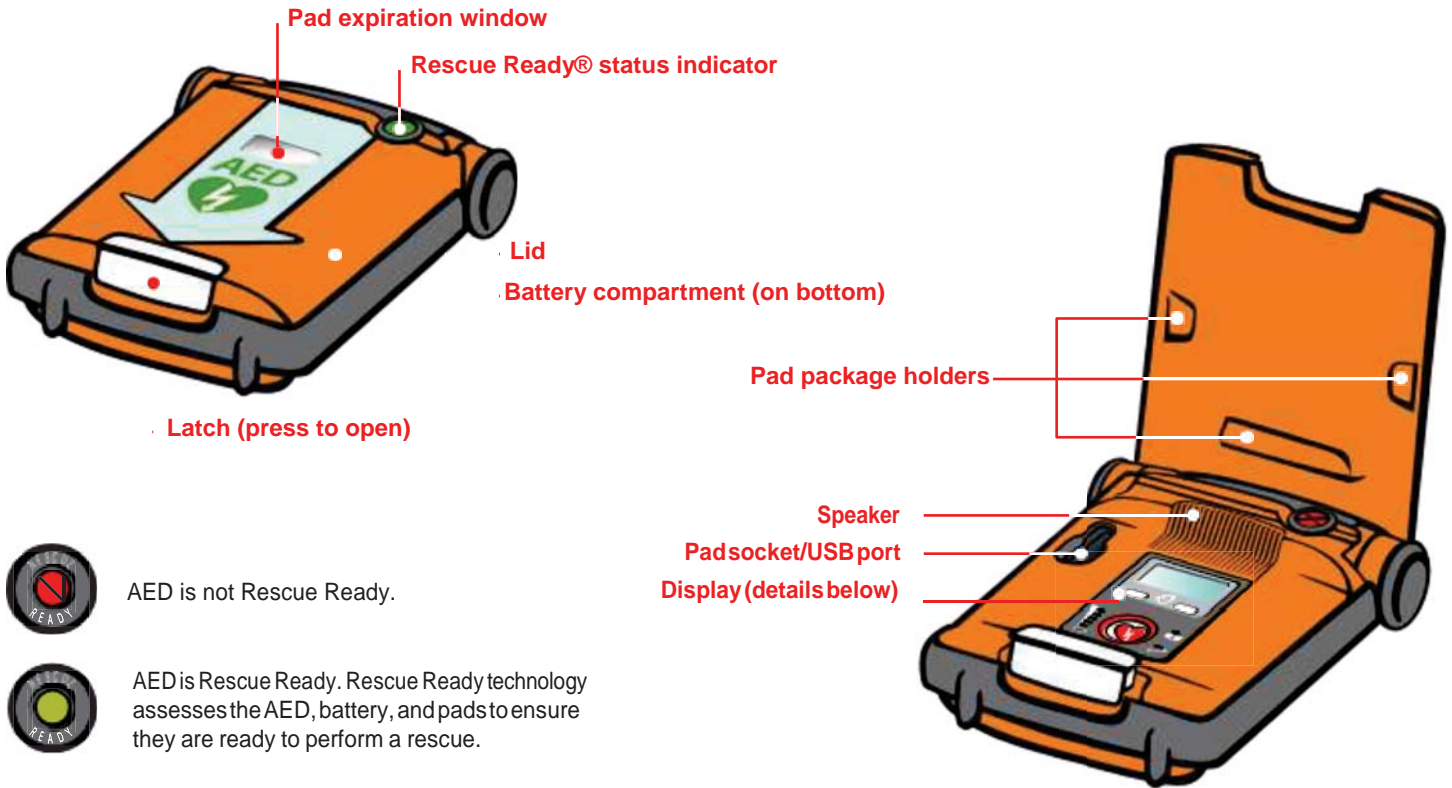
- △ Pressurized contents: Do not short circuit, puncture, deform, or expose to temperatures above 65°C (149°F).
- △ Not tested for airborne applications
- △ Inspect battery contacts on insertion into AED and annually. Clean contacts with gold contact cleaner if any sign of oxidation or corrosion is present.
- △ Always keep a spare battery on hand in addition to the battery currently in operation.
- △ Use one of these solutions to clean the case of the AED: soapy water, denatured ethanol, or 91% isopropyl alcohol.
- △ Use one of these solutions to clean the plastic housing of the battery: soapy water, denatured ethanol, or 91% isopropyl alcohol.



If the AED indicates that the battery is low and needs to be replaced please recycle or dispose of the lithium battery in accordance with all federal, country, state, and local laws. Help our environment, recycle, and [send your depleted batteries to AED Battery Exchange](#):

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AED Parts



The Display Panel

Information display

- ◆ Number of shocks delivered
- ◆ Rescue timer
- ◆ Rescue prompts and CPR countdown timer

Function buttons

Press to enter diagnostic mode or to change the prompt language.

Smartgauge™ battery status indicator

The green LEDs display the capacity of the battery. With use, the LEDs turn off as battery capacity decreases. When the green LEDs turn off and the red LED lights, replace the battery.



Defibrillation pads indicator

- Lights when the pads are:
- ◆ improperly connected to the AED
 - ◆ cold, dried, or damaged
 - ◆ detached from the patient during a rescue

Shock button (semi-automatic model only)

- ◆ Lights red when the AED is ready to deliver a defibrillation shock.
- ◆ Press to deliver therapy to the patient.

Service indicator

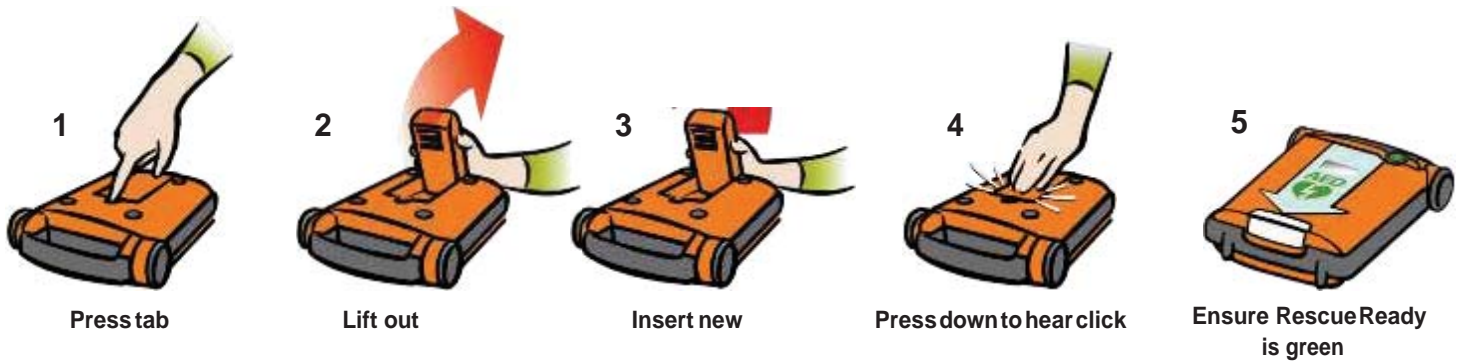
Lights when the AED detects a need for maintenance or service.

Battery Installation:

Note: The ABE battery (G5-ABE) automatically stores history of its operating life. The battery history can be reviewed with AED Manager Software.



How to replace the battery:



Note: Ensure that the battery is at room temperature before inserting it into the AED.