**Warning!**

- Use the AED Plus® unit only as described in this manual. Improper use of the device can cause death or injury.
- DO NOT use or place the AED Plus unit in service until you have read the AED Plus Operator’s and Administrator’s Guides.
- DO NOT use or place the AED Plus unit in service if the unit's status indicator window (located on the left side of the handle) displays a red “X”.
- DO NOT use or place the AED Plus unit in service if the unit emits a beeping tone.
- Connect the electrode cable to the AED Plus unit after installing batteries.
- Keep the electrode cable connected to the AED Plus unit at all times.
- This device is intended for use by personnel who have been trained in its operation. Users should receive training in basic life support/AED, advanced life support or a physician-authorized emergency medical response training program.
- Only use electrodes labeled "Infant/Child" on children less than 8 years old or weighing less than 55 lbs (25 kg). Use CPR-D-padz® if patient is older than 8 years or weighs more than 55 lbs (25 kg).
- Always stand clear of patient when delivering treatment. Defibrillation energy delivered to the patient may be conducted through the patient’s body and cause a lethal shock to those touching the patient.
- DO NOT touch the electrode surfaces, the patient, or any conductive material touching the patient during ECG analysis or defibrillation.
- Move patient away from electrically conductive surfaces prior to use of equipment.
- DO NOT use the unit near or within puddles of water.
- Keep the patient as motionless as possible during ECG analysis.
- DO NOT use the unit near flammable agents, such as gasoline, oxygen-rich atmospheres, or flammable anesthetics.
- Avoid radio frequency interference from high-power sources that might cause the defibrillator to interpret cardiac rhythms incorrectly by turning off cell phones and 2-way radios.
- Disconnect non-defibrillation protected electronic devices or equipment from patient before defibrillation.
- Dry victim’s chest, if wet, before attaching electrodes.
- Apply freshly opened and undamaged electrodes, within the electrode expiration date, to clean and dry skin to minimize burning.
- DO NOT place electrodes directly over the patient’s implanted pacemaker. Pacemaker stimuli may degrade the accuracy of ECG rhythm analyses or the pacemaker may be damaged by defibrillator discharges.
- Check labeling inside the ZOLL® AED Plus cover before using the cover as a Passive Airway Support System (PASS) device to ensure it is intended for this use.
- DO NOT use the Passive Airway Support System (PASS) if there is a suspected head or neck injury. Place the patient on a firm surface before performing CPR.
- DO NOT recharge, disassemble, or dispose of batteries in fire. Batteries may explode if mistreated.
- DO NOT use or stack the AED Plus unit with other equipment. If the unit is used or stacked with other equipment, verify proper operation prior to use.

**Caution!**

- DO NOT disassemble the unit. A shock hazard exists. Refer all servicing to qualified personnel.
- Use only commercially available type 123A lithium manganese dioxide batteries.
- Discard batteries properly after removal from unit. Use only batteries from recommended manufacturers. See the AED Plus Administrator’s Guide (P/N 9650-0301-01) for a list of recommended battery manufacturers.
- If the device is stored outside the recommended environmental conditions, the electrode pads and/or batteries may be damaged or their useful life reduced.
- The CPR-D-padz Electrode can be connected to other ZOLL defibrillators with Multifunction Cables. Defibrillation can be administered when connected to other ZOLL defibrillators. The CPR function does not operate with any device other than the AED Plus defibrillator.
- Keep the unit away from magnetic resonance imaging equipment.

**Important!**

This symbol indicates that an AED Plus unit is equipped for treating adult and pediatric patients. An AED Plus unit without this symbol is not equipped to treat pediatric patients and will NOT work with Pedi-padz® II pediatric electrodes. To upgrade an AED Plus unit for use with ZOLL Pedi-padz® II pediatric electrodes, contact ZOLL Medical Corporation or an authorized ZOLL distributor for information on the ZOLL AED Plus Pediatric Upgrade Kit.

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**Set-up and Check-out Procedure:**

1. Insert 10 new batteries into AED Plus unit.
2. Connect electrode cable to AED Plus unit and pack sealed electrodes inside unit cover. Close cover.
3. Turn unit on and wait for “Unit OK” audio message. Verify that unit issues appropriate “Adult Pads” or “Pediatric Pads” audio message.
4. Turn unit off.
5. Wait 2 minutes. Verify that green check symbol (✓) appears in status indicator window (located on left side of handle) and that unit does not emit a beeping tone.
6. Place AED Plus unit in service.
7. Check AED Plus unit periodically to ensure that green check symbol (✓) appears in status indicator window.

**Battery Replacement**

For AED Plus units running software version 5.32 or higher, replace batteries every 5 years or if unit prompts. For earlier software versions, replace batteries every 3 years and place a dated AED Plus battery replacement reminder label next to the On/Off button. These labels are available from ZOLL Customer Service. Use only type 123A lithium manganese dioxide batteries from recommended manufacturers.

- Remove all batteries from battery compartment and discard before installing any new batteries.
- Insert 10 new batteries into battery well. Do not use old batteries.
- Press button in battery well only after installation of new batteries.

**Cleaning**

- Clean and disinfect unit with soft, damp cloth using 90% isopropyl alcohol or soap and water, or chlorine bleach (30 milliliter water).
- Do not immerse any part of the unit in water.
- Do not use ketones (MEK, acetone, etc.).
- Avoid using abrasives (e.g., paper towels) on the LCD display, if so equipped.
- Do not sterilize the unit.

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**TROUBLESHOOTING**

<table>
<thead>
<tr>
<th>Problem</th>
<th>Recommended Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Self-test failed.</td>
<td>Manually test by pressing and holding the ON/OFF button for more than 5 seconds. If unit fails test again, remove from service.</td>
</tr>
<tr>
<td>“Change batteries” prompt.</td>
<td>Replace all batteries at the same time.</td>
</tr>
<tr>
<td>Red “X” in Status Indicator window OR beeping noise when unit is OFF.</td>
<td>Perform manual test. Check to see if cable is attached properly to unit. Replace batteries. If unit still does not operate correctly, remove from service.</td>
</tr>
<tr>
<td>Red “X” in Status Indicator window when unit is ON.</td>
<td>Power cycle the unit. If Red “X” is still present in Status Indicator window, remove unit from service.</td>
</tr>
</tbody>
</table>

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Federal (U.S.A.) law restricts this device for sale to or on the order of a physician.

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**AED Plus®**

Automated External Defibrillator

Operator’s Guide

AHA 2015

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REF 9650-0300-01 Rev. U
After one shock...

Person collapses—suspected cardiac arrest. Unit OK.

Turn unit on.
Self-test; unit OK.
Stay calm.
Call for help.
Attach defib pads to patient’s bare chest.
No shock advised.
Don’t touch patient.
Analyzing.

Start CPR.
Administer CPR:
2 breaths for every 30 compressions.

Indicator light flashes.
Check responsiveness.
Shout, “Are you OK?” as you shake the person.
Indicator light flashes.
Call or send someone for help.
Indicator light flashes.

Other prompts you may see in the LCD screen:
Text messages
Shock counter
Elapsed time
ECG waveform

What you should do:
Plug in cable.
Attach electrode cable.

Unit failed:
Turn unit off and then on.
If unit still fails, perform CPR.
Release shock button.
Let go of shock button.
Change batteries.
Replace all 10 batteries.

Start CPR.

After one shock...

Indicator light flashes.
Give STAND CLEAR Warning. DO NOT touch patient. Press green button.
Shock delivered.

Other prompts you may hear:
Plug in cable.
Unit failed.
Release shock button.
Change batteries.
(n) shocks delivered.

What you should do:
Attach electrode cable.
Turn unit off and then on.
If unit still fails, perform CPR.
Replace all 10 batteries.

What you see.
What you hear.
What you do.

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