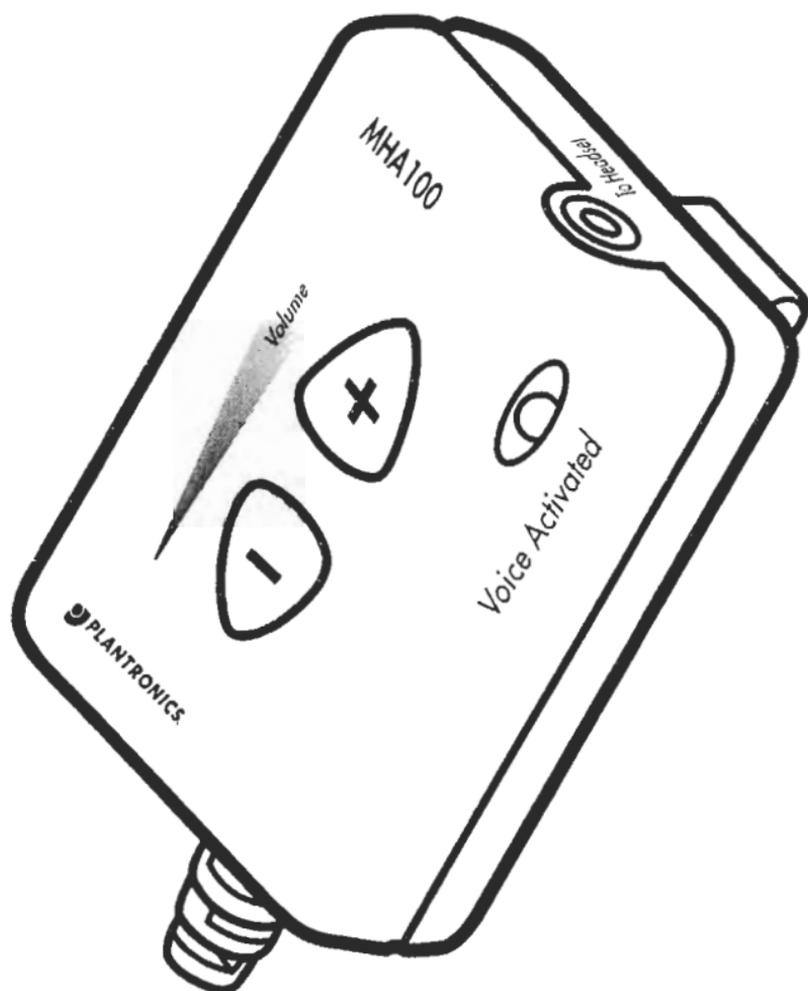


# MHA 100 MOBILE HEADSET AMPLIFIER

## User Guide



 **PLANTRONICS.**

## **Important Safety Instructions**

When using your telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury to persons including the following:

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on the equipment.
3. Do not use this equipment near a bath tub, washbasin, kitchen sink or laundry tub, in a wet basement, near a swimming pool or anywhere else there is water.
4. Avoid using a telephone (other than a cordless type) during a storm. There may be a remote risk of electrical shock from lightning.
5. Do not use the telephone to report a gas leak in the vicinity of the leak.
6. Use only the power cord and batteries indicated in the manual. Do not dispose of batteries in a fire. They may explode. Check with local codes for possible special disposal instructions.

**SAVE THESE INSTRUCTIONS**

# Safety Instructions For Batteries

## Save These Instructions

**CAUTION:** Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

To reduce the risk of fire or personal injury read and follow these instructions:

1. Use only the approved battery in your telephone equipment.
  - 3 Zinc Air type batteries AC675
2. Do not dispose of the battery in a fire as it may explode. Check with local codes for possible special disposal instructions.
3. Do not open or mutilate the battery. Released electrolyte is corrosive and may cause damage to the eyes and skin. It may be toxic if swallowed.
4. Exercise care in handling batteries in order not to short the battery with conducting materials such as rings, bracelets and keys. The battery or conduction material may overheat and cause burns.

5. Charge the battery (ies) provided with or identified for use with this product only in accordance with the instructions and limitations specified in this manual.
6. Observe proper polarity orientation between the battery pack and the battery charger.
7. Always store hearing aid batteries in a dry place at room temperature. Do not store them in the refrigerator, nor store them under excessive heat.
8. If the battery gets wet it will erode rapidly. Take the battery out of your MHA100 and dispose of it. Remove any excess moisture from the MHA100 and then insert a clean dry battery.

9. Zinc Air hearing aid batteries are dangerous if swallowed. If a battery should be accidentally swallowed, see a doctor immediately or call the National Button Battery Hotline at 202-625-3333.
10. Recycling of your used hearing aid batteries helps to protect the environment and conserves resources. For information on how you can properly dispose of or recycle your used hearing aid batteries, call your local recycling hot line.

**SAVE THESE INSTRUCTIONS**

# Features

1. Volume Control Up/Down
2. Belt Clip
3. Coiled Cord for Cell Phone Connection
4. On/Off LED (RED)
5. 2.5mm Headset Jack For Headset Connection
6. Low Battery Indicator (RED)

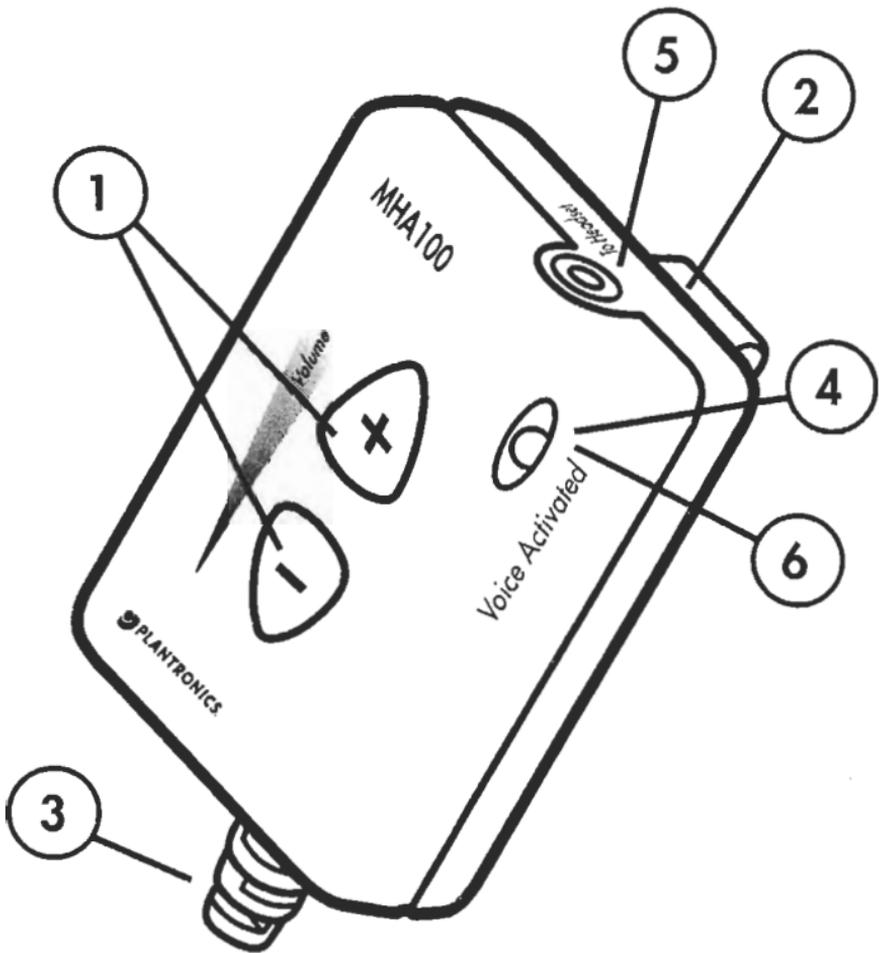


Diagram A.

## Power Requirements

This unit uses three (3) Zinc Air type 675 or AC675 batteries. Install the batteries in battery compartment before using.

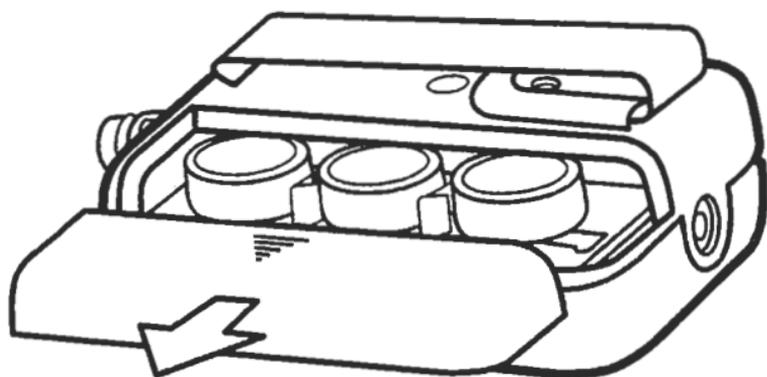


Diagram B. Battery Installation

## Battery Installation and Replacement

Remove the battery door by sliding it off to the side of the MHA100.

To remove batteries turn the MHA100 upside down. The existing batteries will drop from their slots.

The new batteries have a protective covering and will not work unless the covering is removed. Simply peel off the covering using the tab and allow the battery breathe for about 1 minute before putting it into the MHA100.

Place the batteries into the MHA100 with the + (positive side) FACING UP.

Replace the battery door by sliding it back on to the MHA100.

**NOTE:** Please remove expired batteries to prevent leakage.

**Battery Life:** 30-40 hours of continuous talk time depending on usage and volume setting.

## INSTALLATION AND OPERATION

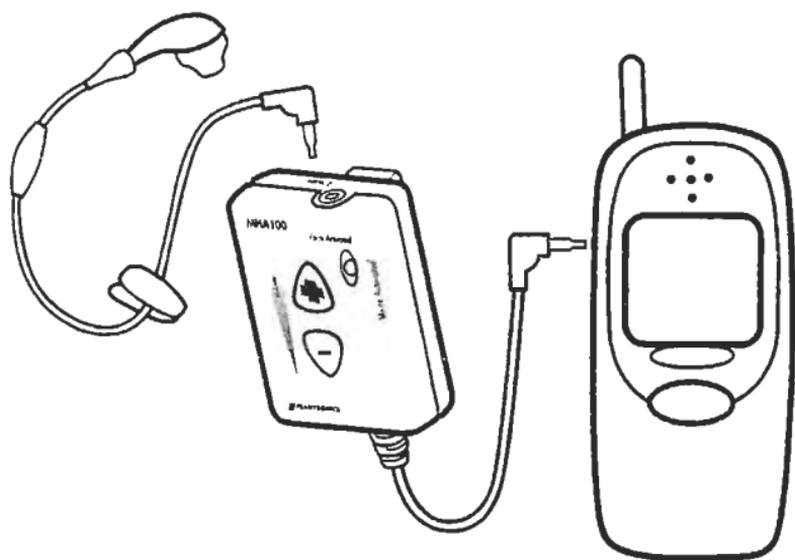


Diagram C. Set-up of MHA100

**NOTE:** Use of this product requires a telephone with a 2.5mm jack and a compatible headset. If your phone does not have a 2.5mm jack, an adapter may be

required. Check with the manufacturer of the telephone equipment.

1. Plug the coiled cord (2.5mm) of the MHA100 into your telephone's headset jack.
2. Plug the connector of the headset into the 2.5mm jack of the MHA100.
3. The MHA100 is sound/voice activated. The unit will automatically turn on and the RED LED will light up when a call is made or received.
4. Adjust the volume control to best suit your hearing. For best results, set the volume of your phone to minimum or near minimum before adjusting the volume controls of the MHA100.

**Note:** The RED LED will also blink to indicate the amplifier has reached its maximum volume limit.

5. The unit will turn off automatically ten (10) seconds after the phone is turned off or no sound is detected. The MHA100 will automatically turn on when there is sound activity detected or a button on the cell phone is pressed.

**CAUTION:** If the MHA100 does not turn off after ten (10) seconds and your

telephone is turned off, unplug the coiled cord from your phone. The unit will, and should turn off in about 10 seconds. If the MHA100 is still on after ten (10) seconds or more, remove the batteries.

## **Low Battery Indicator**

The low battery indicator monitors the condition of the batteries. The indicator will flash RED to indicate the batteries should be changed. The indicator will only flash while in use. Replace batteries as soon as possible with 3 Zinc Air type AC675 batteries.

## **Care and Maintenance for Your MHA100**

Daily care and attention will prolong the life of your MHA100.

1. Do not store the MHA100 with the battery installed for an extended length of time.
2. Store your MHA100 in a dry place.
3. Do not expose your MHA100 to excessive moisture, humidity, or steam.
4. Do not drop your MHA100 or allow the MHA100 to be subjected to rugged handling.

5. Keep fresh batteries in your MHA100 and be aware that your MHA100 will stop functioning when the battery dies.

## **TROUBLE SHOOTING**

Use this guide to help solve some of the common problems the MHA100 may experience. If you have a problem not defined or one that persists, call your local retailer or our customer service department at 1-800-552-3368.

### **1. No Sound**

- Battery may be dead.
- Battery may be in backwards.
- Verify that the phone is turned on.
- Stereo jack from MHA100 may not be plugged all the way in.

### **2. Weak Sound**

- Weak battery.
- Turn up the volume of the phone.
- Turn up the volume on the MHA100.
- Your hearing condition may have changed.
- Your headset may not be working correctly.

### **3. Whistling Sound**

- MHA100 volume control is too high.

Readjust the volume until the squeal is gone.

- The telephone used with the MHA100 volume is set too high. Readjust the volume until the squeal is gone.
- Your headset may not be seated snugly in the ear. If this problem persists, try a different style of headset that fits better with your ear structure, where the microphone and the speaker are not located next to each other right by the ear lobe.
- Move the phone, specifically the antenna, away from the unit.

## **Part 15 of FCC Rules Information**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Your equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to Part 15 of FCC rules. These limits are designed to

provide reasonable protection against harmful interference in residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation; if this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, you are encouraged to try to correct the interference by one of the following measures:

Where it can be done safely, reorient the receiving television or radio antenna.

To the extent possible, relocate the television, radio or other receiver with respect to the telephone equipment. (This increases the separation between the telephone equipment and the receiver.)

Connect the telephone equipment into an outlet on a circuit different from that to which the television, radio, or other receiver is connected.

Consult the dealer or an experienced Radio/TV Technician for help.

**CAUTION:** Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.

## **Industry Canada Technical Specifications**

This product meets the applicable Industry Canada technical specifications.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. In some cases, the company's inside wiring associated with a single line individual service may be extended by means of a certified connector assembly (telephone extension cord). The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier. Any repairs or alterations made by the user to this equipment, or

equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

**CAUTION:** Users should not attempt to make such connections themselves, but should contact the appropriate electrical inspection authority, or electrician, as appropriate.

The Ringer Equivalence Number is an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on interference may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all the devices does not exceed five.

(The term "IC:" before the certification/registration number only signifies that the Industry Canada technical specifications were met.)

The party responsible for regulatory compliance:

Clarity, A Division of Plantronics, Inc.  
4289 Bonny Oaks Drive, Suite 106  
Chattanooga, TN 37406  
Phone: 1-800-552-3368

## **WARRANTY & SERVICE**

The following warranty and service information applies only to products purchased and used in the U.S. and Canada. For warranty information in other countries, please contact your local retailer or distributor.

### **Limited Warranty**

Clarity, a division of Plantronics, Inc. ("Clarity") warrants to the original consumer purchaser that, except for limitations and exclusions set forth below, this product shall be free from defects in materials and workmanship for a period of one (1) year from the date of original purchase ("Warranty Period"). The obligation of Clarity under this warranty shall be at Clarity's option, without charge, of any part or unit that proves to be defective in material or workmanship during the Warranty Period.

## **Exclusions from Warranty**

This warranty applies only to defects in factory materials and factory workmanship.

Any condition caused by accident, abuse, misuse or improper operation, violation of instructions furnished by Clarity, destruction or alteration, improper electrical voltages or currents, or repair or maintenance attempted by anyone other than Clarity or an authorized service center, is not a defect covered by this warranty. Telephone companies manufacture different types of equipment and Clarity does not warrant that its equipment is compatible with the equipment of a particular phone company.

## **Implied Warranties**

Under state law, you may be entitled to the benefit of certain implied warranties. These implied warranties will continue in force only during the warranty period. Some states do allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

## **Incidental or Consequential Damages**

Neither Clarity nor your retail dealer or selling distributors has any responsibility

for any incidental or consequential damages including without limitation, commercial loss or profit, or for any incidental expenses, expenses, loss of time, or inconvenience. Some states do not allow exclusion or limitation of incidental or consequential damage, so the above limitation or exclusion may not apply to you.

### **Other Legal Rights**

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

### **How to Obtain Warranty Service**

To obtain warranty service, please pre-pay shipment and return the unit to the appropriate facility listed below.

In the United States

#### **Clarity Service Center**

4289 Bonny Oaks Drive, Suite 106

Chattanooga, Tennessee 37406

Tel. (423) 622-7793 or

(800) 426-3738

Fax: (423) 622-7646 or

(800) 325-8871

## **In Canada**

Plantronics Service Center

1455 Pitfield Boulevard

Saint-Laurent

Quebec H4S 1G3

Tel: (800) 540-8363

(514) 956-8363

Fax: (514) 956-1825

Please use the original container, or pack the unit(s) in a sturdy carton with sufficient packing material to prevent damage. Include the following information:

1. A proof-of-purchase indicating model number and date of purchase.
2. Bill-to address.
3. Ship-to address.
4. Number and description of units shipped.
5. Name and telephone number of person to call, should contact be necessary.
6. Reason for return and description of the problem.

Damage occurring during shipment is deemed the responsibility of the carrier, and claims should be made directly with the carrier.



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