



Operating Instructions MA 27



SHIPPING INSTRUCTIONS

Should it be necessary for you to return the audiometer for repair or calibration, be sure to return the headset as well. This is essential – the audiometer cannot be calibrated without it.

If more than one audiometer is in use at your facility, verify that the serial number on the back panel of the audiometer and the serial number of the headset are identical.

Enclose an explanatory letter with the instrument. Describe the service you require and carefully detail any operational problems. Be sure to state the serial number and your complete return address.

Place the audiometer in the original shipping carton using the foam supports supplied. Insure properly and return it to your Maico distributor.

Note: Warranty services will be provided by the authorized distributor from whom you purchased the audiometer.

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WARRANTY

Maico Limited One Year Warranty

This warranty is extended to the original purchaser of the audiometer by Maico and through the authorized distributor from whom it was purchased, and covers defects in material and workmanship for a period of one year from the date of delivery of the audiometer to the original purchaser.

If the audiometer contains a defect in material or workmanship, Maico, at its option, will repair or replace the instrument at no charge except for transportation to and from the point of service. It is the purchaser's responsibility to return the audiometer to the Maico distributor from whom it was purchased or directly to Maico after receiving authorization to return.

This warranty does not cover breakage or failure occasioned by tampering, misuse, carelessness, accidents or modification. The warranty is void if the audiometer is repaired by anyone other than an authorized Maico service center.

NOTE: Specifications in this manual were in effect at the time of printing. Maico, whose policy is one of continuing progress, reserves the right to discontinue or change specification or design and any time without notice or incurring obligation.

CALIBRATION

The length of time that an audiometer should be operated before recalibration varies depending upon the treatment given the instrument and its headset. Generally speaking, however, it is recommended that the instrument have a laboratory recalibration at least once a year. Since rough handling can easily cause calibration errors, it is advisable to establish a biological calibration check as soon as you receive the instrument. This can be done as follows:

1. Make several careful tests of your own hearing, recording the results properly on the audiogram cards provided with the instrument.
2. Conduct similar tests with several young adults on whom you will be able to make subsequent retests, recording these on audiogram cards also.
3. File these audiogram cards where they will be readily available for comparison with subsequent retests.

Should you feel at any later date that the audiometer's calibration may be in error, proceed to make retests on yourself and the same young adults on whom you made audiograms previously. If all retests show changes of 10 dB or more in the same direction at the same frequencies, calibration is probably in error. If repair and recalibration is needed, be sure the work is done by a Maico Special Instrument Service Center. This assures the use of quality materials by trained and experienced technicians using accurate and reliable test equipment.

Maico distributors are located in major cities throughout the world. To minimize shipping charges and delay, contact Maico for the location of the distributor nearest to you:

7625 Golden Triangle Drive (888) 941-4201 toll free
Eden Prairie, MN 55344 (952) 903-4100 fax

AUDIOMETRIC TESTING GUIDELINES

Place the person to be tested at ease concerning the test, by explaining the purpose of the test and what kind of sound or sounds will be heard.

Proper placement of the earphones on the ears is essential to achieving good test results. Eliminate any obstructions which will interfere with proper placement (i.e. hair, earrings, eyeglasses, hearing aids, etc.) Adjust the headband so the earphone cushions are centered over the ears and the head. The earphone cushions will put firm pressure on both ears.

Excessive noise can affect test results. The test site should be away from conversations, typewriters, hallway traffic, and other noise producing environments.

Avoid giving the test subject visual cues when performing the test.

PREVENTATIVE MAINTENANCE

To maximize the service life of your audiometer and headset we suggest the following:

1. Turn the instrument off when not in use.
2. Dust the audiometer occasionally with a soft, dry cloth.
3. Wipe the headset cords and ear cushions occasionally with a warm, slightly damp cloth. Ear cushions should be removed from receivers when cleaning. Dry with a soft cloth.
4. Leave the headset connected to the audiometer permanently to minimize straining the connections. Should it be necessary to unplug the headset, always grasp the barrel of the connecting plugs and pull straight out - never pull on the cords.
5. Avoid dropping the earphones or snapping them together. This could affect the calibration accuracy.

INTRODUCTION

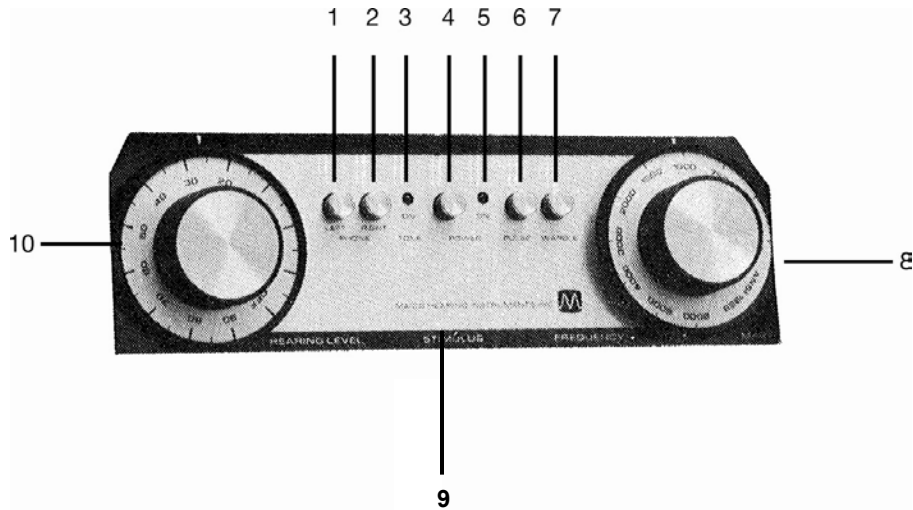
Your new MA27 Ultra-portable Audiometer has been specifically designed for the on-the-go hearing testing programs. In addition to its extremely lightweight package (less than 6 pounds), you will find features such as pulse tone and warble tone to help you in your testing. The MA27 meets all appropriate sections of ANSI S3.6-1969, Rev. 1973.

Maico audiometers have been designed to meet the most thorough of electrical safety standards and to provide years of reliable operation with the rugged durability that has become the trademark of Maico portable audiometers.

SPECIFICATIONS

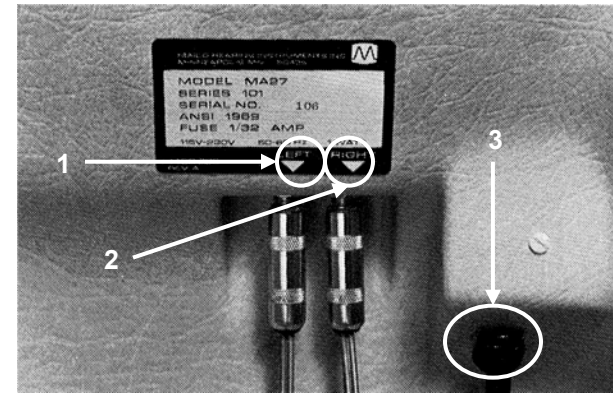
Test frequencies:	250, 500, 750, 1000, 1500, 2000, 3000, 4000, 6000, 8000 Hz
Attenuator range:	-15 to 90 dB HL, ANSI
Warble Characteristics:	±5%; 5Hz rate
Pulse Mode:	2.5 pulses/second
Power Input:	115 volts; 50-60 Hz, 230 volts optional
Test Headset:	TDH 39 receivers, 10 ohm
Dimensions:	14" wide; 17" deep; 7" high
Weight:	5.9 lbs. with standard accessories

FRONT PANEL - FUNCTION GUIDE



1. Press for Left earphone
2. Press for Right earphone
3. Tone on light illuminates when stimulus is presented
4. Press to turn on or off
5. Lights to indicate that power is on
6. Press to select Pulse tone
7. Press to select Warble tone
8. Select desired frequency
9. Press to present stimulus
10. Select desired hearing level

REAR PANEL



1. Left phone jack (this is blue on the instrument)
2. Right phone jack (this is red on the instrument)
3. Power cord

Note: Insert jacks fully and rotate to insure good connections. Leave permanently connected if possible to avoid straining.

SET-UP INSTRUCTIONS

The entire cover may be removed by snapping up and back. Cords may exit through the slot in the rear of the audiometer or at the cover hinge. Note slot for cord exit. Hold cords in the slot while replacing cover for a neat appearance in permanent installations.

The transparent cover must be used for temporary storage of audiogram and pencils.

The storage area is large enough to hold "Audiocups" earphone enclosures without disassembly.

To replace cover, place it slightly forward of the position shown and push straight back.