



How to Use Your

ALL-TRANSISTOR

**SONOTONE**

ELEVEN **III** ELEVEN

# YOUR SONOTONE "ELEVEN-ELEVEN"

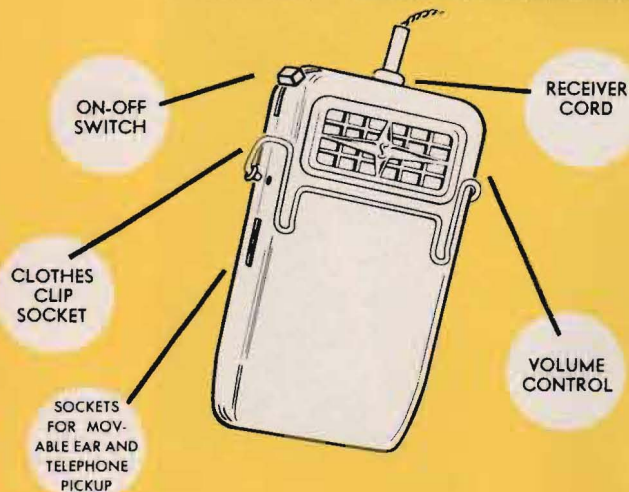


Fig. 1

**Y**OUR NEW ALL-TRANSISTOR Sonotone is a compact precision instrument designed to give you better hearing. The more you know about it, the more you will enjoy it. This booklet tells you how to operate, wear and care for it. So read the following pages carefully.

Main units of your Sonotone are the transmitter and the receiver.

The streamlined transmitter is worn on your body, connected by a cord to the receiver, which is worn in or near your ear. The transmitter contains the microphone, electronic circuit, battery compartment and internal fitting controls. These controls were set by your Sonotone Consultant to meet your individual hearing needs. Do not tamper with them.

## SONOTIPS ON THE CARE OF YOUR INSTRUMENT

1. Your Sonotone is sturdily built but contains many sensitive electronic units. Handle it carefully. Avoid rough treatment. Don't toss it onto hard surfaces or leave it where children can get at it.
2. Extreme heat may harm your Sonotone. Don't leave it on a radiator or park it in your car on a hot day. Never wear it under a heat lamp or sun lamp.
3. To reduce wear and tear on receiver cord:  
Leave cord connected to receiver and transmitter when hearing aid is not in use.  
Do not yank cord to remove it from socket. Grasp plug and pull gently but firmly.  
Don't use your cord for a pin cushion. If you use a safety pin to attach cord to undergarments, be careful not to push the pin through the cord.
4. Keep a spare receiver cord on hand.
5. To save your battery, to save your transmitter and to save yourself inconvenience:

When not wearing your hearing aid, remove the battery and be sure transmitter is turned **OFF!**

Keep a supply of extra batteries on hand.

Keep battery compartment clean, free from tarnish or deposit. If necessary, wipe compartment with damp—not wet—cloth; then dry carefully. In cleaning, be sure no moisture gets into electronic circuit.

If coiled spring contacts are tarnished, they may be cleaned with a pencil eraser.

## Air-Conduction Model

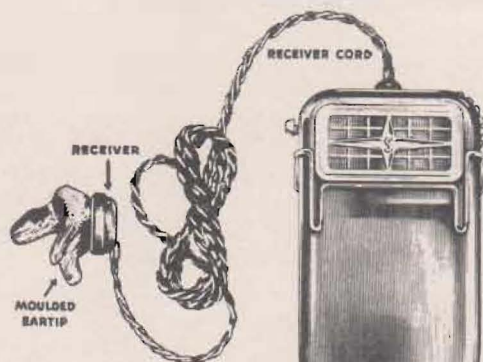


Fig. 2

**T**HE AIR-CONDUCTION MODEL includes a transmitter, a receiver with an individually molded eartip, a receiver cord and a battery.

The air-conduction receiver is the midget device which introduces sound to the ear. Two types are available: the Standard and the "Tuck-Away." Either is held snugly in place at the ear by a personalized molded eartip.

The receiver cord is the lightweight cord connecting the receiver to the top of the transmitter.

## Air-Conduction Receiver

### STANDARD U-1, U-2

Air-conduction receivers are usually worn at the ear, held in place by a plastic eartip molded to fit the ear canal. The receiver may also be worn hidden under collar or blouse with an "Out-A-Sight" eartip, as shown below.

### HOW TO CONNECT "STANDARD" EARTIP



1. Snap nub on flat face of receiver into hole of flat face of eartip.
2. Insert plug of receiver cord in receiver.
3. Hold transmitter with microphone grill facing you. Insert plug at other end of receiver cord in socket at top center of transmitter.

### 'OUT-A-SIGHT'



With an "Out-A-Sight" eartip, you hear with no "button" in your ear. Transparent tubing runs from eartip to hidden receiver.

### TO ATTACH 'OUT-A-SIGHT' EARTIP TO RECEIVER



Snap nub on flat side of receiver into coupler at end of tubing (Fig. 4). Then connect receiver cord as in Steps 2 and 3 above.

# Air-Conduction Receiver

## "TUCKAWAY"

Tiny "TUCKAWAY" receiver is tucked in your ear and held in place by a plastic eartip molded to fit your ear.

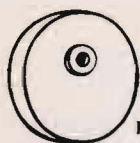


Fig. 5



Fig. 6



Fig. 7

## HOW TO CONNECT RECEIVER

- Note nub on flat side of receiver (Fig. 5); three small pins on other side (Fig. 6); three small holes inside plastic cap at one end of receiver cord (Fig. 7). When cap fits over receiver, three small pins will fit in three small holes.
- In one hand, hold cap so that receiver cord hangs straight down. In other hand, hold receiver with pins facing cap and nub facing you.



Fig. 8

If you wear receiver in *right* ear, press receiver into cap so that nub is to *right* of cord (Fig. 8).



Fig. 9

If you wear receiver in *left* ear, press receiver into cap so that nub is to *left* of cord (Fig. 9).



Fig. 10

If you press receiver into cap so that nub is in line with cord (Fig. 10), receiver won't work.

# Bone-Conduction Model

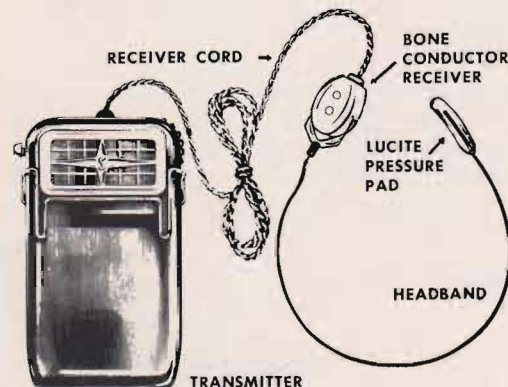


Fig. 8

THE BONE-CONDUCTION MODEL includes a transmitter, a bone-conduction receiver with headband and lucite pad, a receiver cord and a battery.

The bone-conduction receiver is the small vibrator or oscillator which is worn behind the ear and is held securely in place by the headband.

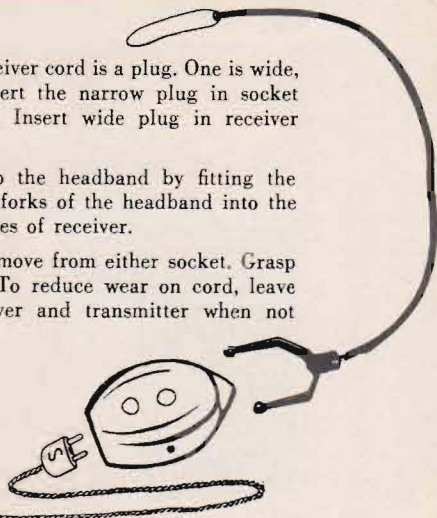
The receiver cord is the lightweight cord which connects the bone-conduction receiver to the top of the transmitter.

## Bone-Conduction Model

At each end of the receiver cord is a plug. One is wide, the other narrow. Insert the narrow plug in socket at top of transmitter. Insert wide plug in receiver (Fig. 9).

Attach the receiver to the headband by fitting the projections inside the forks of the headband into the tiny depressions in sides of receiver.

Never yank cord to remove from either socket. Grasp plug and tug gently. To reduce wear on cord, leave it connected to receiver and transmitter when not using instrument.



### GARMENT CLIP

This clip is removable and reversible.

*To Remove Clip*—Grasp clip at one side and lift the end out of the clothes clip socket. Then do the same on the other side.

*To Reverse Clip*—Remove clip as above, place on the opposite side of instrument and insert into clothes clip sockets.

The large socket on the side of the instrument is for the "Movable Ear" (the outside microphone) and for the Telephone Pickup accessory.



Fig. 9

## One Battery Operates Your Sonotone

1. The Sonotone "Eleven-Eleven" Transistor Hearing Aid requires only one battery for its operation. Because this battery is larger than corresponding batteries in some makes of hearing aids, it lasts longer, thereby insuring longer uninterrupted use.

Your Consultant has selected the proper Sonotone battery for your needs. Be sure that only the battery recommended is used in your instrument.

Be sure to insert battery correctly or your instrument may not operate. Follow these directions:

2. Hold the instrument with the back cover facing you. Lift the cover. Note location of coil springs and contact buttons in battery compartment.
3. Place battery in compartment so that the arrow on the battery points in same direction as arrow in bottom of battery compartment.

Press battery (arrow side up) against coil springs and push it down into place as far as it will go.

**WARNING!** Be sure that the battery is inserted according to the markings in the battery compartment. Arrow on battery should be *visible* when battery is in place.

Do not touch the fitting controls. Only your Sonotone Consultant should adjust these controls.

4. When not wearing your hearing aid, remove battery. To remove, compress coil springs by pushing other end of battery. Lift out.

Fig. 11

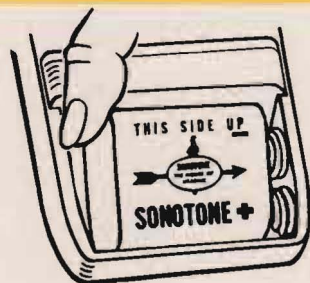
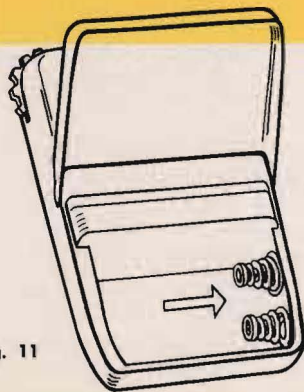


Fig. 12

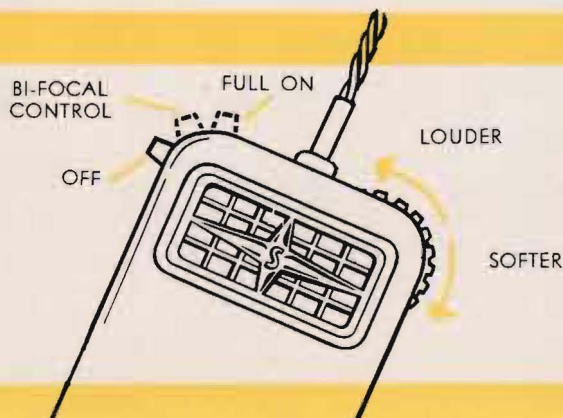
# How to Operate Your Sonotone

With the receiver connected and battery inserted, your instrument is ready to operate. Note location of on-off switch and volume control (Fig. 10).

**On-Off Switch**—When switch is at lowest position, hearing aid is turned off. To turn instrument full on, move switch to highest position. To dim out background sounds for clearer hearing in crowded, noisy places, move switch to middle position ("Bi-Focal Control"). When not using hearing aid, be sure switch is turned off, or *all the way down*.

**Fingertip Volume Control**—To increase volume, turn control up. To decrease volume, down. For best results, start with volume at lowest position. Then turn it up to point where you hear comfortably—and no farther.

FIG. 10 — TRANSMITTER



# How to Wear Your Sonotone

## TRANSMITTER

Your Sonotone is so small and light that wearing it is no problem. Most men clip the transmitter in a shirt, vest or coat pocket (Fig. 13) or wear it in a tiny "Sonowear" pouch suspended from the neck under the shirt (Fig. 14). Women clip the instrument to a bra or slip (Fig. 15) or tuck it in a pouch and pin the pouch to a bra strap (Fig. 16). "Sonowear" holders are also available for children's use. Patterns for special garments for tiny tots will be supplied upon request by application to Martha Lane, Sonotone, Elmsford, N. Y.



Fig. 13



Fig. 14



Fig. 15



Fig. 16



Fig. 17

## RECEIVER

### AIR-CONDUCTION RECEIVER

If you insert the eartip in your ear too quickly, you may create air pressure in your ear canal. This pressure causes discomfort. To avoid pressure, move the eartip to and fro as you insert it.

### BONE-CONDUCTION RECEIVER

Though fitted to you, your headband may need additional adjustments. Be sure neither the headband nor its swivel "fork" presses on your head above the receiver. Try the receiver at different positions behind your ear, until you find the spot that gives you the best hearing.

## How to Use the Telephone

Hold the telephone earpiece against the grill on the front of your transmitter (Fig. 18). Speak into the other end of the phone. Light clothing between the phone and transmitter won't affect reception to any degree.

If you use the phone regularly or have difficulty in hearing over the phone, you will be helped by the Sonotone Telephone Pickup. This attachment banishes blurred sounds, eliminates outside disturbing noises and permits you to hear with ease and understanding.



Fig. 18

# Helpful Hints on Helping Yourself

**IN EMERGENCIES** here's how you find and correct possible trouble in your Sonotone:

IF HEARING AID:	READ PARAGRAPHS:
Is dead	1, 2, 3, 4, 5, 8, 9
Works, but weakly	2, 3, 4, 5, 6, 7, 8, 9
Works off and on	3, 4, 5, 8, 9
Whistles	6, 9, 10
Sounds noisy, raspy, shrill	3, 4, 5, 8, 9, 10
Sounds hollow, "mushy"	2, 7

1. Cause—Battery reversed in compartment: arrow on battery pointing opposite to arrow in case or turned over so arrow is not visible.
2. Cause—Dead or run-down battery. Test—Check battery with voltmeter or substitute new battery.
3. Cause—Poor contact between cord plugs and sockets due to dirty pins or springs. Test—With hearing aid turned on, wiggle plugs in sockets and withdraw and reinsert each plug. Remedy—Rub plug pins with pencil eraser, then wipe with clean cloth.
4. Cause—Broken or frayed wires in receiver cord. Test—While listening, wiggle cord at its plug and flex it by running fingers along entire length. Intermittent or raspy sounds mean damaged wires. Remedy—Replace faulty cord with new one.

5. Cause—Plugs not firmly inserted. Test and remedy—While listening, withdraw and firmly reinsert each plug.
6. Cause—Eartip not properly seated in ear. Test and remedy—Press receiver into ear, twisting receiver back and forth slightly to make sure eartip is properly positioned.
7. Cause—Eartip plugged with wax or water. Test—Remove eartip from receiver, examine eartip and blow through it to determine whether passage is open. Remedy—Remove eartip from receiver. Then wash eartip in Sonotone Eartip Sanitizer, reaching into passages with pipe cleaner or brush. Blow out moisture. Dry with dry pipe cleaner.
8. Cause—Not enough pressure of bone conduction receiver against bone behind ear. Test—While listening, press receiver more tightly against head. Remedy—Bend headband to provide greater pressure.
9. Cause—Oozing batteries have tarnished battery connections. Test—Examine battery and battery compartment for leaking fluid and tarnish. Remedy—If battery leaks, discard it and clean compartment.
10. Cause—Transmitter worn too close to receiver. Remedy—Wear transmitter farther from receiver—for example, on opposite side of body.

# The "Movable Ear"



This unique Sonotone attachment worn on the outside of blouse, shirt, tie or coat receives sound waves without any muffling effects from covering garments, thus greatly reducing "clothes-rubbing" effect. No telltale cord shows.

Also available are "SonoCharms," jeweled brooches which slide over "Movable Ear."

## SONOTONE CORPORATION ELMSFORD, N. Y.

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Licensed under one or more of the following patents:

Bone Conduction Instrument .....	Re. 21,030
Air Conduction Instrument .....	2,449,557
	2,493,734
Connector Elements .....	2,339,146
	2,339,147

Other patents pending