

# INSTRUCTIONS

*on how to operate and  
maintain your new*



## ROYAL CRUSADER

*"LIVING SOUND"*

HEARING AID



*Follow these easy  
step-by-step instructions  
to assure full enjoyment  
with your new Zenith.*

dear customers:

Welcome to a thrilling new experience in hearing aid enjoyment.

This trim, smart, newly styled Zenith instrument features a time-tested 4-transistor circuit creatively designed and engineered to give you the finest possible hearing help and good operating economy.

Should you ever have any questions regarding your new hearing aid, check with the Zenith dealer from whom the aid was purchased, or with us. We are always available to assist you in any way in your pursuit of better hearing.

As you become accustomed to your new aid, I feel certain your confidence in Zenith "Living Sound" Hearing Aids will be amply rewarded by many hours of listening pleasure.

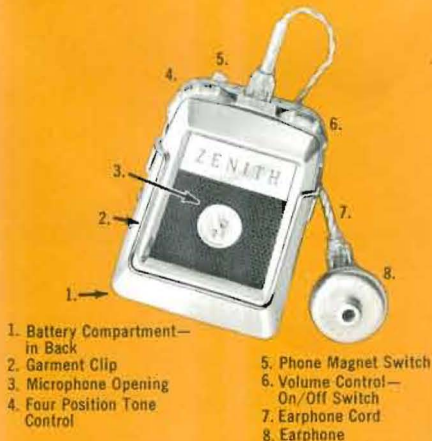
Sincerely,



PRESIDENT

ZENITH HEARING AID SALES CORP.

## know the parts of your new ROYAL CRUSADER Hearing Aid



## 1 volume control— on/off switch



The new ROYAL CRUSADER features a smoothly rotating volume control permitting finger-tip adjustment of sound amplification for best hearing under varying acoustic conditions. The on/off switch is combined with the volume control. When instrument is not in use, always rotate wheel to "off" position to avoid exhausting batteries.

## 2 four position tone control



Although in using the ROYAL CRUSADER you may find one tone position best for your individual needs, you may at the touch of your finger tips change the tonal response to any one of four settings to meet varying acoustic conditions. Their individual response is as follows:

**Position "H"**—Emphasizes high tones.

**Position "M"**—Amplifies medium tones, decreases the aid's sensitivity.

**Position "L"**—Emphasizes low tones.

**Position "F"**—Amplifies all sounds covered by the aid's frequency range.

# 3

## earphone



Your new ROYAL CRUSADER is normally equipped with a special two terminal XR90 earphone. A vinyl seal washer is also provided to assure an air-tight seal between the earphone and your earmold. Your Zenith dealer may recommend some of the following devices which could give improved performance in special situations.

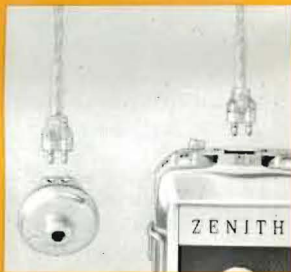
**SPECIAL EARPHONES.** Types L-1, L-2 and L-4 to provide more brilliant or more mellow tones than is possible with the standard XR90 earphone.

**POWER CONTROL CORDS.** In some "borderline" hearing losses it is desirable to reduce the maximum loudness where full power is not necessary or objectionable.

**PLASTIC EARPHONE INSERTS.** For the individual with "tender ears" these plugs reduce the impact of sudden loud sounds.

# 4

## how to attach earphone cord

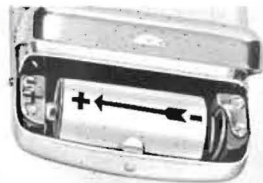


A durable, high quality Zenith earphone cord is provided with each ROYAL CRUSADER Hearing Aid. Plugs are interchangeable. Either plug may be inserted in the earphone cord socket or the top hearing aid receptacle.

When removing cord, grasp plug between thumb and forefinger, then pull out. *Never pull on the cord itself.* Different cord lengths are available. When replacement of a cord is necessary always use a genuine Zenith cord. All Zenith cords are identified by the registered trademark "Z" molded in the plug.

# 5

## how to insert battery

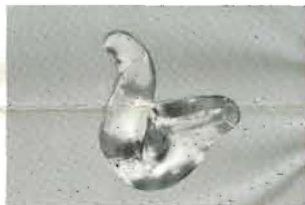


Your ROYAL CRUSADER hearing aid operates economically on a small 1.5 volt battery, the "N" cell. To insert battery, press negative (—) end against the contact spring, then firmly push down the positive (+) end.

To obtain maximum performance and battery life from your new aid, we recommend that you always use genuine Zenith Batteries, fresh stocks of which are maintained at all authorized Zenith dealers. (A mercury type 401 and an alkaline-manganese type ZM-9100 can also be used.)

# 6

## earmolds



Good acoustic seal between the ear and earmold is so important in achieving maximum enjoyment and efficiency from your aid that Zenith strongly recommends the use of a Zenith Custom Earmold. Because a custom earmold is "tailor-made" from an impression of your own ear, a fit can be achieved that will provide the best possible hearing and greatest wearing comfort.

Your Zenith Hearing Aid Dealer can take an impression of your ear and obtain a genuine Zenith regular plastic or special "Soft-Flex" custom earmold for you at moderate cost. A variety of efficient, comfortable, inconspicuous styles are available. If you haven't already done so, ask your dealer for details today!

The earmold usually provided with your hearing aid is a stock earmold designed primarily for demonstration and temporary use until a custom-made earmold can be obtained.

Instructions continued on reverse side → →



# 7

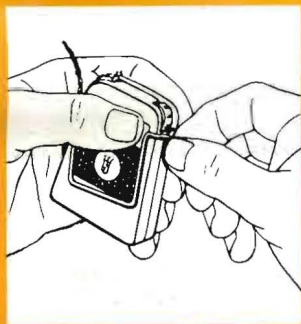
## phone magnet



The Zenith Phone Magnet in your new ROYAL CRUSADER Hearing Aid enables you to "focus" on telephone conversations by shutting out sounds picked up by the microphone. To operate, simply flick the switch from "M" (microphone) to "T" (telephone) position, then couple the telephone receiver as shown in the above illustration.

# 8

## garment clip



The new ROYAL CRUSADER garment clip is front mounted and designed with extra depth for a better clothing fit. If it is necessary to have a rear mounted clip, your Zenith dealer can replace the front clip with a rear mounted style.

## How to find correct tone-volume setting

The combination of tonal response and sound amplification you will need depends upon (1) the particular type and degree of your hearing loss and (2) acoustic conditions in different surroundings.

To find the one tone-volume setting that provides excellent performance under nearly all conditions, follow this procedure while your aid contains a *fresh* battery! It helps to have a friend assist you.

- A. Set the Tel/Mike Switch at "M" position.
- B. Set the Tone Control at Position "F" and the Volume Control at No. 1.
- C. Have a friend speak in a normal tone of voice from a distance of 6 to 8 feet.
- D. Slowly advance Volume Control until you can hear your friend's voice clearly.
- E. Do not move Volume Control beyond point where you can hear words clearly. Some people tend to use too much power at first. This causes distortion of sound.
- F. Experiment with all 4 Tone positions to see which gives best results. For each change in Tone, set Volume at lowest position providing satisfactory hearing.

## Important advice to new users...



Learning to operate and maintain your new Zenith is the first step to true hearing enjoyment. Next, and equally important, is patience and practice in mastering the new worlds of sound that your hearing aid will provide. To assist you in learning how to use your new aid, we recommend you read the enclosed booklet titled "A Guide To Better Hearing" written especially for those who have never worn a hearing aid.

# ***How to care for your hearing aid***

**1**

## **AVOID EXCESSIVE HEAT**

Never leave your aid in hot sunlight, on a radiator, in a closed car, or near other sources of high temperature. Our warranty does not cover damage due to such misuse or neglect, or to any other misuse, neglect or accident.

**2**

## **REMOVE BATTERY AT NIGHT**

When battery becomes exhausted, the chances of its leaking and damaging your aid are increased. Play safe by removing battery from aid each night and checking carefully for signs of leakage.

**3**

## **CLEAN TERMINALS WITH AMMONIA**

If battery terminals or hearing aid contacts become corroded, brighten them by rubbing with cloth dipped in household ammonia. Should battery leakage occur, remove fluid promptly with cloth dampened in ammonia.

**4**

## **CLEAN CORD CONTACTS**

Remove any corrosion that forms on cord plug terminals and socket holes with a pipe cleaner and small brush saturated in carbon tetrachloride. Dry thoroughly before re-connecting.

**5**

## **CLEAN EARMOLD FREQUENTLY**

Remove wax from earmold canal with pipe smokers stem cleaner whenever it forms. Wash mold in "Germin-Kleen"—a beneficial new product developed specifically for cleaning and sanitizing earmolds, and which is now available at most Zenith hearing aid dealers. If not available, wash in soapy water at least once a week. Do not use hot water or strong solvents such as alcohol to clean earmold. Dry thoroughly with pipe cleaner. Make certain no moisture remains after cleaning.

### ONE-YEAR WARRANTY

Your one-year warranty, giving full details of your protection against defects in workmanship and materials, will be sent to you upon receipt of the registration card from your Zenith dealer. The hearing aid is warranted by Zenith Radio Corporation against defects in workmanship and materials as to parts\* arising in connection with normal usage for one year from date of purchase from Zenith Radio Corporation or any of its subsidiaries or authorized dealers. Zenith's obligation thereunder is to replace any such defective parts (with the noted exceptions) if the instrument is returned to Zenith or any of its subsidiaries within such one-year period, transportation charges prepaid. The terms and conditions of this warranty are your assurance of Zenith quality. See warranty for additional terms. *If you do not receive this certificate of warranty within a month after your Zenith instrument is delivered to you, notify Zenith Hearing Aid Sales Corporation at Chicago address, specifying serial number, purchase date, and dealer name and address from whom you purchased your instrument.*

### FIVE-YEAR SERVICE PLAN

Our written plan, which appears on the reverse side of the warranty, provides that any time after one year, and within five years from the date of purchase of a new Zenith Hearing Aid, the aid will be reconditioned completely, if it is shipped prepaid to the Zenith office nearest you whose address is listed below. This includes replacement of all defective parts\* of the complete hearing aid. The charge for reconditioning will not exceed \$30.00, this charge being dependent upon prevailing labor and material costs to Zenith. (In the event your hearing aid is returned to Zenith through your local dealer, Zenith's charge for reconditioning to the dealer will not exceed \$30.00). See the plan on the reverse side of your warranty for complete terms.

Following the placing of the instrument in its original operating condition, it is again warranted against defects in workmanship and materials as to parts\* arising in connection with normal usage for one full year on terms similar to the original warranty issued with the Hearing Aid.

\*Exclusive of batteries, cords and accessory items.

#### **Zenith Hearing Aid Sales Corp.**

6501 W. Grand Avenue, Chicago, Illinois 60635

#### **Zenith Hearing Aid Centers of New York, Inc.**

Port Authority Building

111 Eighth Avenue, New York, New York 10011

#### **Zenith Radio Corporation of California**

3344 W. Olympic Blvd., Los Angeles, Calif. 90019

#### **Zenith Radio Corp. of Canada Ltd.,**

Hearing Aid Division

1470 The Queensway, Toronto 18, Ontario, Canada

*Authorized Zenith Hearing Aid Dealers are located in principal cities throughout the United States and Canada. Consult your classified telephone directory.*

To expedite repair of your aid, please complete this form when returning it for service.

## ROYAL CRUSADER

## MODEL

ADDRESS

SERIAL NO.

STATE

ZIP CODE

DATE PURCHASED

☐ *In Warranty*

☐ *Other*☐ *For Reconditioning*

☐ *For Parts & Labor*

☐ *Hearing Aid*☐ *Other*☐ Earphone

**Cord**

### Volume Control Setting

Number

### Tone Control Setting

Letter

☐ *Dead*

☐ *Hi Battery Drain*

☐ *Weak*

☐ *Noisy*☐ *Other*

☐ *Cut-Out*

☐ *High Pitch*

☐ *Low Pitch*

*Signature*