

Assistive Listening Systems

RX-1A

User's Guide



Copyright
Information 

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Introduction 

The RX-1A Assistive Listening Receiver will provide the highest level of hearing assistance when used with the matching Gentner Assistive Listening transmitters. Whether in church or school, movies or opera, the RX-1A will provide excellent sound quality at almost any level desired.

The RX-1A's state-of-the-art circuitry runs on standard low-voltage batteries for much longer battery life. The case is attractive, comfortable to hold or place in a pocket or hung from a neck loop, and is durable enough to withstand daily use.

The RX-1A is continuously tunable over the entire Assistive Listening Band, so it can be easily changed to another frequency as needs change.

A wide range of accessories to suit almost every hearing need is available for the RX-1A, ranging from a rechargeable battery system to a variety of earphones and neck loops.

Controls 

Earphone Jack. Plugs any straight (no 90°) into the mini jack. This is a 32Ohm mono output.

ON/OFF Volume. Turns the RX-1A on/off with this easy-to-use thumb wheel, and sets the volume. When not in use, the

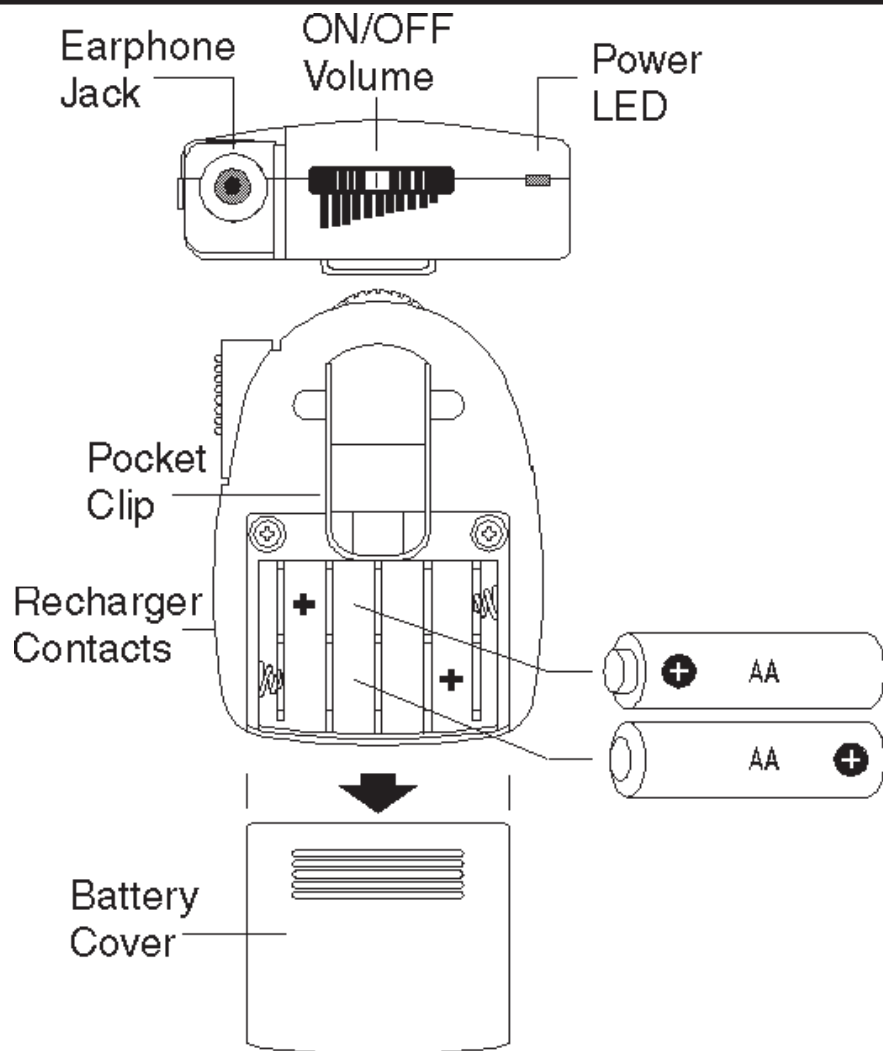


Figure 1. RX-1A diagram

white indicator line should be visible, to protect the battery charge.

Power LED. Indicates that the power is on, and that the batteries are properly charged. As the battery power decreases,

the LED dims.

Pocket Clip. Holds the RX-1A securely in a pocket or over a small belt. Can also be used with supplied wrist loop or optional neck cord for easy, secure carrying.

Recharger Contact. Enables the RX-1A to be used with the optional rechargeable batteries and the BC-10 drop-in trickle charger for quick, easy recharging when not in use.

Battery Cover. Conceals the battery compartment and tuning control.

Operation

Installing Batteries

Before use, install two AA-size batteries in the RX-1A. For longest life, Alkaline types are preferred, but the RX-1A will operate properly on standard types as well. The RX-1A also operates on rechargeable Ni-Cad batteries, available optionally.

To install the batteries, place your thumbs on either side of the pocket clip and slide the battery door off. Note the polarity markings and insert the two AA cells.

Connect Earphone and Set Volume

Plug the supplied or any optional earphone into the jack until it is fully seated. The earphone cable acts as the antenna. Rotate the thumb wheel to turn the receiver on and adjust the listening

level. When not in use, the receiver should be set to OFF (the white indicator line on the thumb wheel visible) to preserve battery charge.

Tuning the RX-1A

Set TX-37A transmitter to the desired channel and activate the built-in test tone. With fully charged batteries installed, turn on and listen to the RX-1A while rotating the tuning control with a small flathead screwdriver or tweaking tool until the test tone is located. After finding the test tone, adjust the tuning control until the test tone is as clear as possible.

Correcting Interference

With any type of RF device, other RF sources can interfere with reception. Even the Assistive Listening Band is occasionally subject to use by other types of devices.

Interference can take the form of rising-and-falling audio. To verify on-channel interference, take the receiver to the place where the interference is worst and turn off the transmitter. The interfering signal should now come in stronger. Since the TX-37A is frequency-agile, you can set it to another channel and retune the receivers to move away from the interference.

If more than one TX-37A is to be operating in the same

location, try to keep the channels used as far apart from each other as possible. Transmitters should never be set to the same frequency in the same location.

Specifications

RX-1A

Dimensions: 2.63"/6.68cmH x 3.5"/8.89cmW
x .75"/1.91cmD

Weight: 4 oz./113.4g (dry)

Frequency Range: 100–10,000Hz

Output Level: 140mW into 32Ohms

Signal-to-Noise Ratio: >60dB

Distortion: < 2 percent

Transmission Type: FM, medium bandwidth (50kHz)

RF Frequency Range: Tunable, 72–76MHz

Sensitivity: 0.6 uV typical, 1mV max for
12dB SINAD

Controls:	On-Off/Volume, Tuning (hidden)
Earphone Jack:	Standard 3.5mm Mono
Power Requirements:	2xAA batteries
Battery Life:	60 hours with Alkaline types

Notice 

Gentner Communications Corporation assumes no liability for improper use or operation of this equipment. The user is cautioned to operate the volume controls at the lowest acceptable level, and in a manner that will not cause damage to hearing. Ear pieces and accessories should be worn using good judgment and for their intended purpose. To avoid entanglement, the ear pieces and neck loops should be removed and stored promptly after use and before sleeping.

Users are cautioned that changes or modifications not expressly approved by Gentner Communications Corporation could void the user's authority to operate the equipment.

If you experience problems with this equipment, contact Gentner Communications Corporation.

Compliance **FCC Registration Number: FBI910402001**

The RX-1A 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 any undesired operation.

This device also complies with the requirements of the Department of Communications (DOC) of Canada. This device complies with the RSS-210 of Industry and Science Canada. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device, as specified in document RSS-210. The device is permitted only on a no-interference basis; that is, it must cease operation if it is causing harmful interference to services authorized by DOC, as listed in the Canadian Table of Frequency Allocations.

Warranty 

Gentner Communications Corporation (Manufacturer) warrants that this Assistive Listening System (ALS) product is free of defects in both materials and workmanship. Should any part of this equipment be defective, Manufacturer agrees, at its option, to:

- A. Repair or replace any defective ALS product, free of charge (except transportation charges), for a period of one year from the date
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of the original purchase, provided the owner returns the equipment to the Manufacturer at the address set forth below. No charge will be made for parts or labor during this period;

B. Furnish replacement for any defective ALS product parts in the equipment for a period of one year from the date of original purchase. Replacement parts shall be furnished without charge, except labor and transportation;

C. Repair or replace any defective ALS accessory, free of charge (except transportation charges), for a period of 60 days from the date of the original purchase, provided the owner returns the equipment to the Manufacturer at the address set forth below. No charge will be made for parts or labor during this period.

This Warranty excludes assembled products not manufactured by Manufacturer whether or not they are incorporated in a Manufacturer product or sold under a Manufacturer part or model number.

THIS WARRANTY IS VOID IF:

A. The equipment has been damaged by negligence, accident, act of God or mishandling, or has not been operated in accordance with the procedures described in the operating and technical instructions; or,

B. The equipment has been altered or repaired by other than Manufacturer or an authorized service representative of Manufacturer; or,

C. Adaptations or accessories other than those manufactured or provided by Manufacturer have been made or attached to the equipment which, in the determination of Manufacturer, shall have affected the performance, safety or reliability of the equipment; or,

D. The equipment's original serial number has been modified or removed.

NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR USE, APPLIES TO THE EQUIPMENT, nor is any person or company authorized to assume any warranty for Manufacturer or any other liability in connection with the sale of Manufacturer's products.

Manufacturer does not assume any responsibility for 1) consequential damages, 2) expenses or loss of revenue or property, 3) inconvenience or interruption in operation experienced by the customer due to a malfunction in the purchased equipment. No warranty service performed on any product shall extend the applicable warranty period.

In case of unsatisfactory operation, the purchaser shall promptly notify Manufacturer at the address set forth below in writing, giving full particulars as to the defects or unsatisfactory operation. Upon receipt of such notice, Manufacturer will give instructions respecting the shipment of the equipment, or such other matters as it elects to honor this warranty as above provided. This warranty does not cover damage to the equipment during shipment and Manufacturer assumes no responsibility for such damage. All shipping costs shall be paid by customer.

This warranty extends only to the original purchaser and is not assignable or transferable.

Contact Numbers

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