

# **STARSOUND<sup>®</sup>**

s y s t e m    6 0 0

## **infrared hearing system**



### user guide

PE 600E emitter

PE 601R receiver

PE 602R receiver

)))))) **Phonic Ear<sup>®</sup>**

**specs available on-line at [www.phonicear.com](http://www.phonicear.com)**

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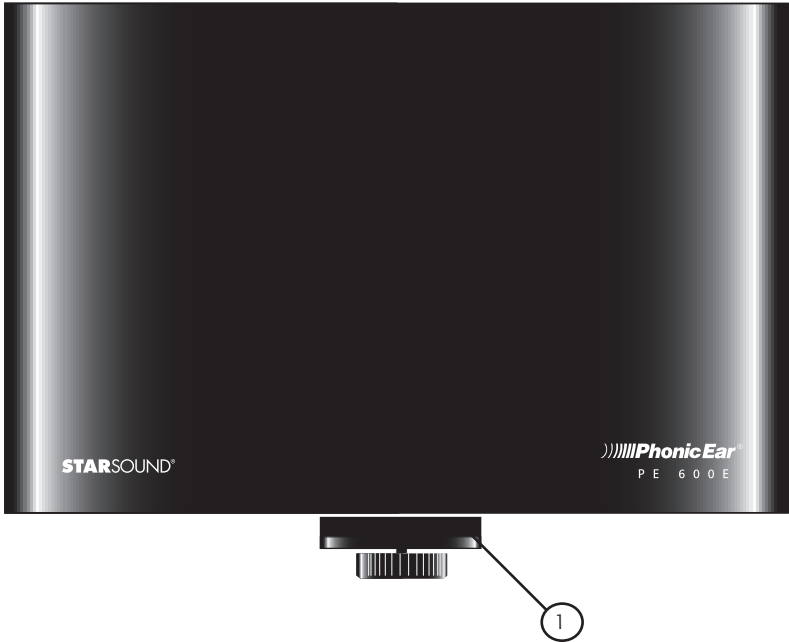
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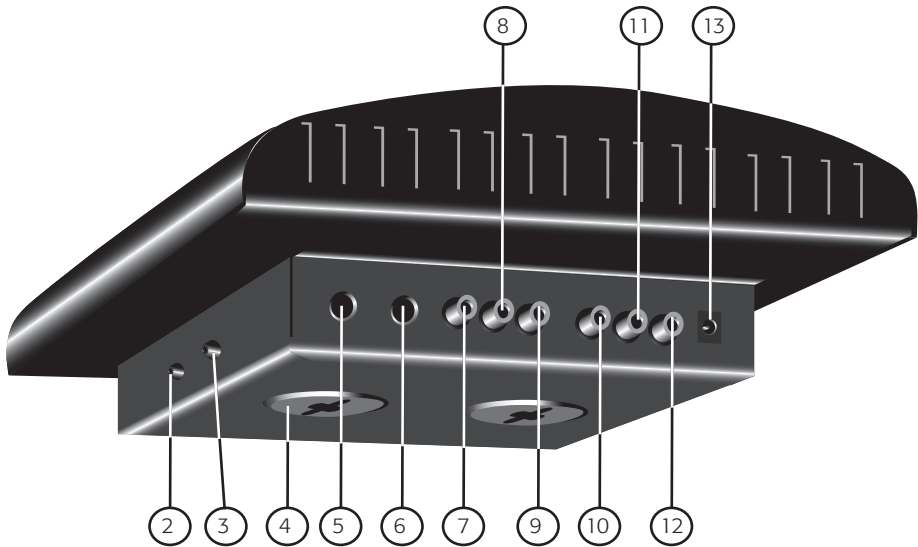
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emitter: PE 600E

Front



Top



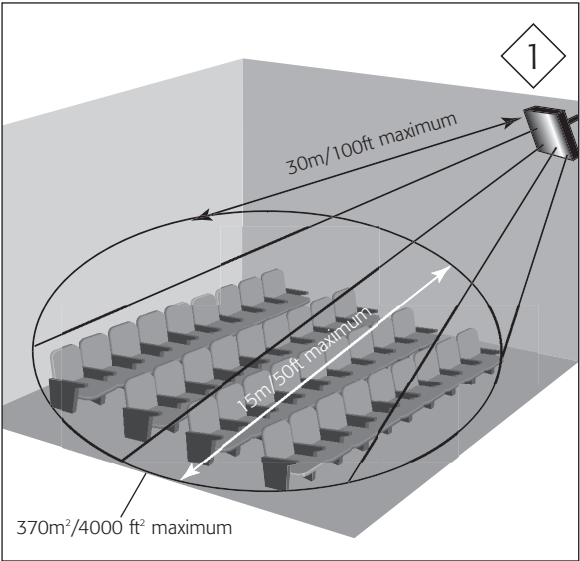
## emitter: PE 600E (cont'd)

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- ① mounting support
- ② input level detector  
(Channel B/Right) *Red*
- ③ input level detector  
(Channel A/Left) *Green*
- ④ wall mounting hole
- ⑤ mic in  
(Channel B/Right)
- ⑥ mic in  
(Channel A/Left)
- ⑦ audio in  
(Channel B/Right) *Yellow*
- ⑧ sync out  
(Channel B/Right) *White*
- ⑨ sync in  
(Channel B/Right) *Red*
- ⑩ sync in  
(Channel A/Left) *Red*
- ⑪ sync out  
(Channel A/Left) *White*
- ⑫ audio in  
(Channel A/Left) *Yellow*
- ⑬ DC in

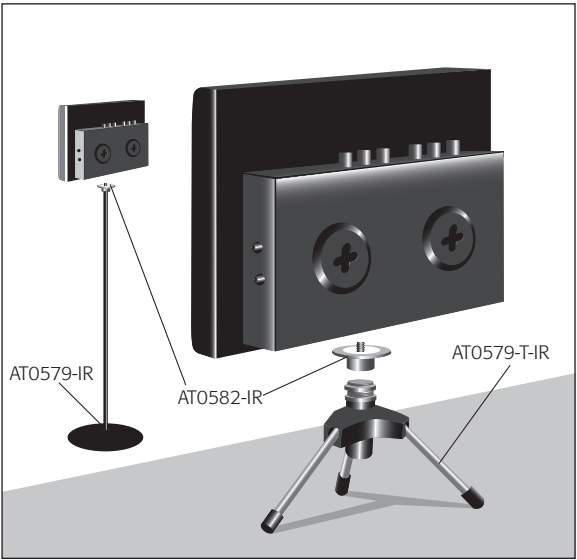
# Starsound 600 setup and operation

## 1 where to mount it



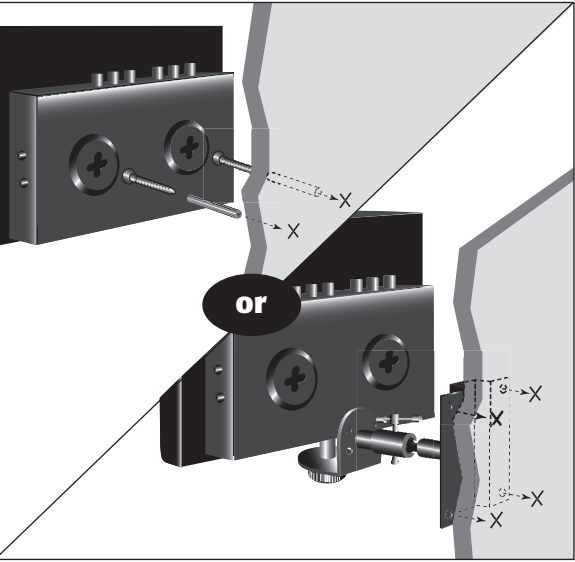
1 Point emitter toward listening area

## 2a floor/table mount

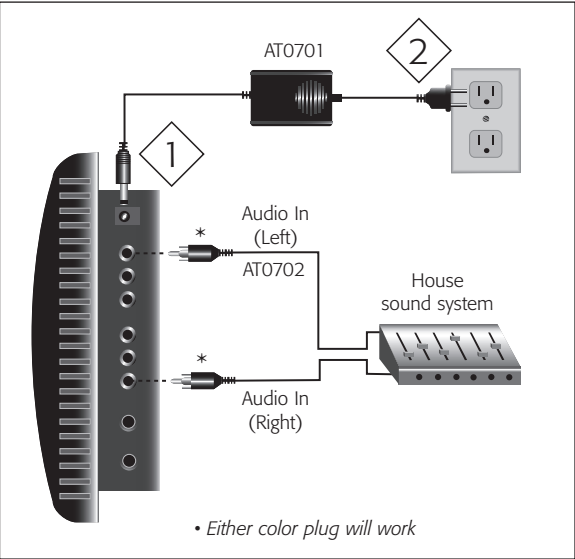


# Starsound 600 setup and operation (cont'd)

## 2b direct wall mount



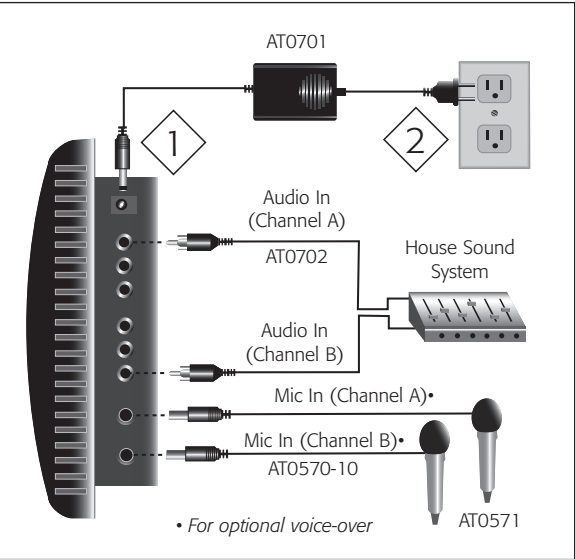
## 3a stereo installation (using PE 601R headset)



- 1 Plug AT0701 transformer into emitter
- 2 Plug AT0701 transformer into wall socket

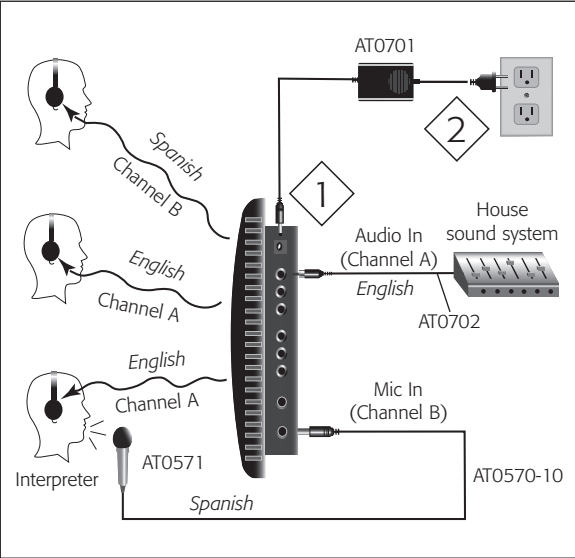
# Starsound 600 setup and operation (cont'd)

## 3b stereo installation (using PE 602R headset)



- 1 Plug AT0701 transformer into emitter
- 2 Plug AT0701 transformer into wall socket

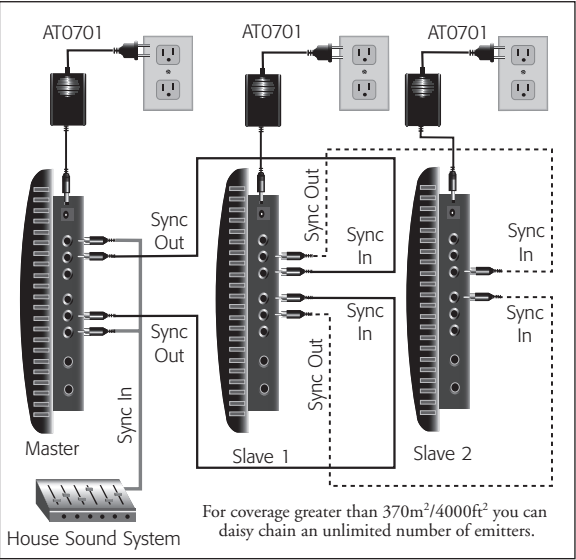
## 3c simultaneous interpretation (using PE 602R headset)



- 1 Plug AT0701 transformer into emitter
- 2 Plug AT0701 transformer into wall socket

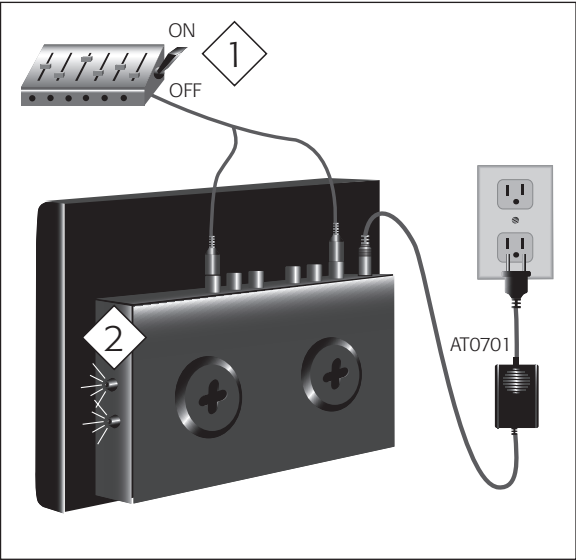
# Starsound 600 setup and operation (cont'd)

## 4 daisy chaining to expand coverage



**NOTE:** If more than one PE 600E is being used, the emitters must be daisy chained together.

## 5 connecting and using the emitter



- 1 Turn on house sound system
- 2 Confirm input level detector(s) flash when signal peaks

**NOTE:** Unplug emitter when not in use for prolonged periods

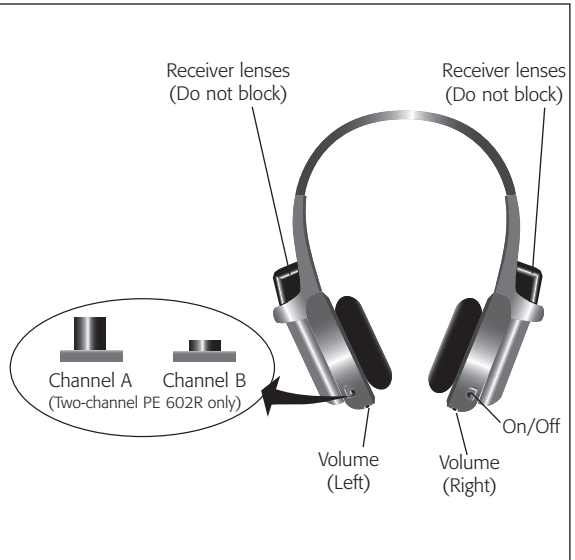


# Starsound 600 setup and operation (cont'd)

## 6a receiver headset battery installation



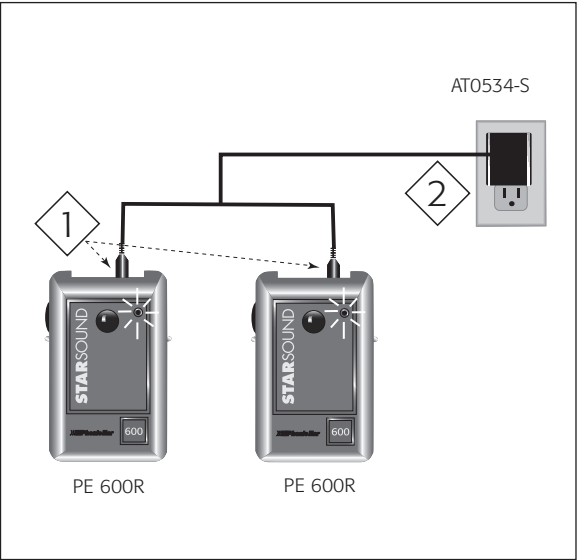
## 6b receiver headset operation



**NOTE:** Headsets can work with T-coil-equipped hearing aids—set hearing aid to “T” position. Turn headsets off when not in use.

# Starsound 600 setup and operation (cont'd)

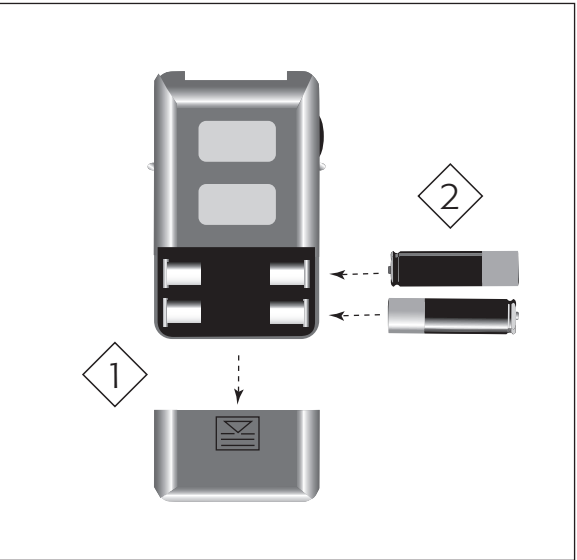
## 7a charging the body-worn receiver



- 1 Plug AT0534-S charger into 600R receiver(s)
- 2 Plug AT0534-S charger into wall socket

**NOTE:** Never recharge alkaline batteries!

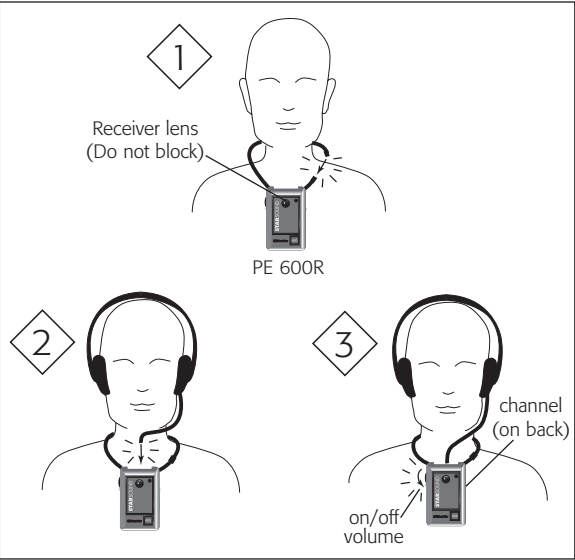
## 7b replacing batteries in body-worn receiver



- 1 Push off battery compartment door
- 2 Place new batteries into battery compartment

# Starsound 600 setup and operation (cont'd)

## 7c using body-worn operation



- 1 Place PE 600R around neck
- 2 Plug headphones into PE 600R
- 3 Turn PE 600R on and adjust volume. Check channel setting on back.

# **troubleshooting** (refer to previous pages for explanatory diagrams)

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## **input level detector not lighting**

- Increase output level on house sound system. (Light should flash when level peaks.)
- Make sure house sound system is connected properly

## **no sound**

- Make sure emitter power cord is connected properly
- Make sure house sound system is on
- Make sure receiver has working batteries

## **sound too low**

- Increase output level on house sound system
- Increase volume on receiver

## **poor sound quality/distortion**

- Reduce output level on house sound system
- Install fresh batteries in receiver
- Make sure receiver lenses are not obstructed

## **intermittent noise**

- Receiver is out of optimum range. Stay within 30m/100ft and in sight of emitter
- Clear path from emitter to receiver
- Avoid heavy light saturation in the room
- Avoid direct sunlight

# product specifications

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## receiver: PE 601R/602R

receiving frequency	2.3 MHz & 2.8 MHz
modulation	FM wide-band
frequency response	60Hz - 7kHz typical
signal-to-noise ratio	54dB non-weighted
power supply	2 AAA Alkaline cells
operating time	20 Hr
current drain	25mA maximum: 20mA typical
maximum output power	6mW
detector lens	Infrared element with ambient light filter
user control	Power Left and right volume Channel (PE 602R only)
color	Black
weight	200g/7.1 oz

## emitter: PE 600E

transmitting frequency	2.3 MHz & 2.8 MHz (simultaneously)
modulation	FM wide-band
supply voltage	28VDC
current drain	700mA typical
audio input impedance	18K $\Omega$
microphone input impedance	1.3K $\Omega$
audio input level	100mV
microphone input level	1mV
ALC rane (audio input)	400mV - 700mV
user controls	None
inputs/outputs	Left audio input phono jack Right audio input phono jack Left sync input phono jack Right sync input phono jack Left sync output phono jack Right sync output phono jack Left mic input 0.25 in mono jack Right mic input 0.25 in mono jack
power input jack	2.5mm

# warranty

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## time period of warranty

This warranty will go into effect upon the date of purchase and will stay in effect as long as the instrument remains the property of the original owner. ONWAVE™ has a 3-year warranty; VOCALIGHT™ has a 2 year warranty. All other products have a 1 year warranty.

## what is covered by this warranty

Any electronic component, which because of workmanship, manufacturing or design defects, fails to function properly under normal use during the life of this warranty will be replaced or repaired at no charge for parts or labor, when returned to the factory service center. Transportation in and out is paid by the customer. If it is determined that repair is not feasible, the entire unit may be replaced with an equivalent unit upon mutual agreement of the manufacturer and customer.

## what is not covered by this warranty

This limited warranty does not apply to:

1. Malfunctions resulting from abuse, neglect or accident
2. Instruments connected, installed, used or adjusted in any manner contrary to instructions provided by the manufacturer
3. Consequential damages and damages resulting from delay or loss of this instrument. The exclusive remedy under this warranty is strictly limited to repair or replacement as herein provided
4. Products damaged in transit unless investigated by the shipper and returned to the warrantor with the investigation report
5. Peripheral accessories as itemized within the product specification sheet as applicable, when such items are returned within 90 days from original purchase
6. Batteries if applicable

*Phonic Ear Inc.* reserves the right to make changes in the design or construction of any of its instruments at any time without incurring any obligation to make any changes whatsoever on units previously purchased.

This warranty is in lieu of all other expressed warranties. All expressed and implied warranties will terminate upon the expiration of this written warranty. No representative or person is authorized to represent or assume for us any liability in connection with the sale or use of our products other than as set forth above.

## what to do if you have questions

If you have any questions about service, call the service department at **800.227.0735**, then **press 7**.

# service

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## what to do if you need service

If you require service under the warranty terms, obtain a service order form either online at **www.phonicear.com/support.asp** or through our U.S. customer service department at **800.227.0735, then press 5** (or +1.707.769.1110 outside the U.S.). Fill the form out completely remembering to include:

1. Description of the problem
2. Your billing address
3. Your shipping address  
(if different from billing address)
4. Contact name and phone number
5. A P.O. number if the equipment is not under a warranty or service contract

## Then, carefully package the equipment in the original shipping container

to prevent damage and send it postpaid to the service center near you:

USA/International:

### **Phonic Ear Inc.**

3880 Cypress Drive

Petaluma, CA 94954-7600

U.S.A.

In Canada:

### **Phonic Ear Ltd.**

10-7475 Kimbel Street

Mississauga, Ontario

L5S 1E7 Canada

## what to do if you have questions

If you have any questions about service, call the service department at **800.227.0735, then press 7.**

## about your batteries

To ensure that your batteries are as fresh as possible upon arrival, we have intentionally not installed them in your equipment.

**install your batteries in your equipment now, then charge overnight before initial use** (see user guide for charging procedure).

## avoid battery corrosion

To avoid battery corrosion and damage to your equipment, **do not recharge disposable or rechargeable alkaline batteries.**

Before charging any Phonic Ear equipment make sure only NiCad or NiMH rechargeable batteries are installed. As an added precaution, remove batteries if the equipment will not be used for several weeks.

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**us:** 800.227.0735, then press 5 • **canada:** 800.263.8700  
**outside u.s./canada:** Call your local Phonic Ear dealer • **website:** [www.phonicear.com](http://www.phonicear.com)