

330T Transmitter

216MHz



user guide

)))))) **Phonic Ear**[®]

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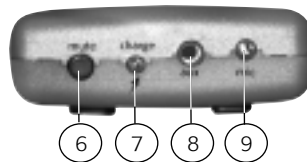
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330T transmitter features

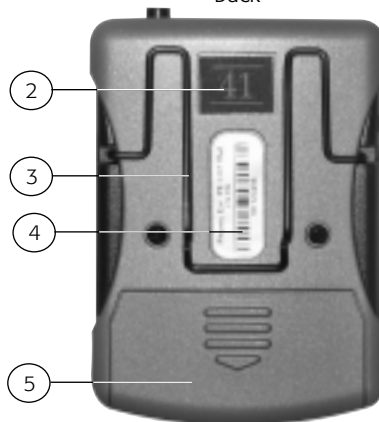
top

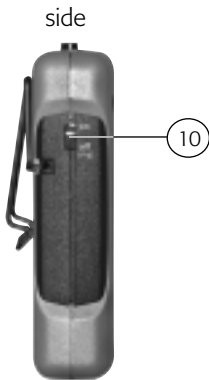


front



back





- ① on/off, low battery and charging indicator light
- **on** = Dim red light
 - ⊙ **low batt** = Blinking red light indicates approximately 1 hour of battery life remaining
 - **batt charging** = Bright red light
 - **improper charging** = No light

- ② channel number label
- ③ belt clip
- ④ serial number/part number/operating band
- ⑤ battery compartment
- ⑥ mute button (■ on ■ off)
- ⑦ charging input jack (1.3mm)
- ⑧ auxiliary input jack (3.5mm)
- ⑨ microphone input jack (2.5mm)
- ⑩ on/off(chg) switch

330T available accessories

1



2



3



4



5



6



7



8



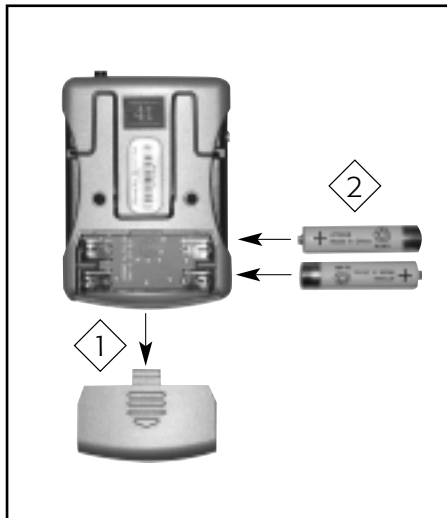
- ① 330T carrying case
(841-6440-101)
- ② rechargeable NiMH AAA batteries
(374-30-310-09)
- ③ elastic belt
(AT0712)
- ④ wall charger*
(AT0749)
- ⑤ lavalier cord*
(AT0512-BK)
- ⑥ aux-in adaptor cord*
(384-01-210-08)
3.5mm - 3.5mm connects 330T to external audio,
CD player, stereo, computer, etc.
- ⑦ aux-in adaptor cord*
(300-6332-107)
3.5mm - dual RCA connects 330T to external
audio, TV, VCR, DVD
- ⑧ antenna*
(AT0529A)
For use during auxiliary input only.


*optional accessory

1

330T setup and operation

inserting batteries



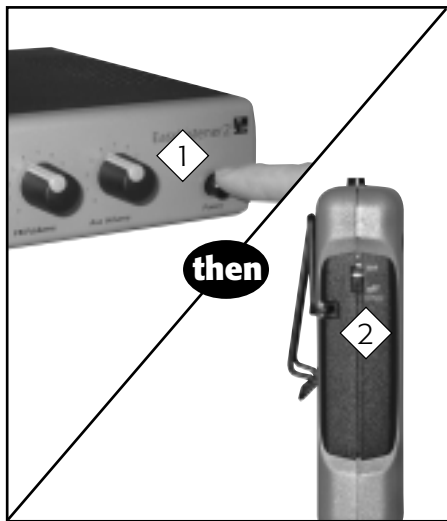
1 Open battery compartment door by pressing  and sliding downwards.

2 Insert rechargeable AAA NiMH batteries (or alkaline batteries) and replace door. **Check polarity markings to confirm batteries are positioned correctly.**

NOTE: The 330T uses high performance NiMH (nickel-metal hydride) batteries. To achieve maximum battery efficiency, charge batteries for 12 hours before initial use. Charge batteries nightly for 12 hours during normal use.

2a

charging batteries using 230R EasyListener 2™ sound field system
Do NOT attempt to charge alkaline batteries in the 330T.
Only Phonic Ear rechargeable batteries can be recharged.



1

Push **power** button to turn 230R receiver off.

NOTE: Sleep/standby power light on 230R receiver will remain lit during power off mode.

2

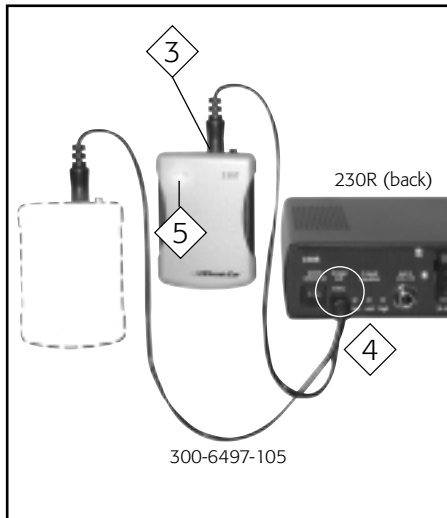
Turn 330T power switch to **off (chg)** position.

2b

charging batteries using 230R EasyListener 2™ sound field system

Do NOT attempt to charge alkaline batteries in the 330T.

Only Phonic Ear rechargeable batteries can be recharged.



3 Plug any end of 300-6497-105 charge cord (included with 230R system) into 330T **charge/⚡** jack.

4 Plug any end of charge cord into **charge out** jack on back of 230R receiver.

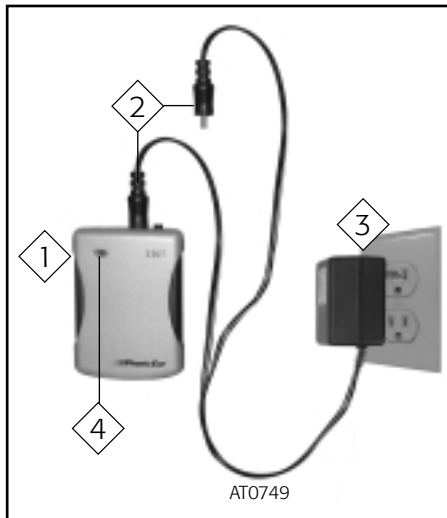
5 Check indicator light on 330T.
bright red = Battery charging
no light = Improper charge

NOTE: Charge for 12 hours before first use. After daily use, charge unit overnight for at least 12 hours for up to 12 hours of battery life.

2c

charging batteries using wall charger

Do NOT attempt to charge alkaline batteries in the 330T. Only Phonic Ear rechargeable batteries can be recharged.

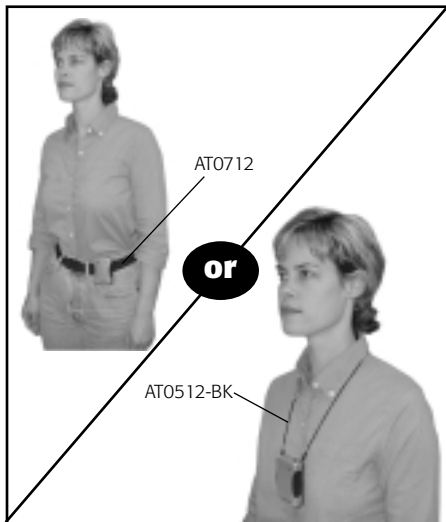


- 1 Switch 330T power to **off (chg)** position.
- 2 Plug either end of AT0749 charging cord into **charge** jack on top of the 330T transmitter.
- 3 Plug other end of AT0749 charging cord into wall socket.
- 4 Check indicator light on 330T.
bright red = Battery charging
no light = Improper charge

IMPORTANT: Charge for 12 hours before first use. After daily use, charge unit overnight for at least 12 hours for up to 12 hours of battery life.

3

wearing 330T



Clip to elastic belt (AT0712), pocket, pants or clothes.

or

Attach transmitter to necklace-style lavalier cord (AT0512-BK).

4a

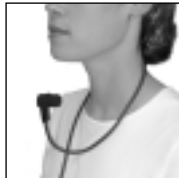
330T microphone options



AT0655
behind-the-neck
boom



AT0814
earhook



AT0816
collar



AT0291-L*
lapel with lavalier
cord

* Lapel style
microphones are
less resistant to
feedback when
used with a sound
field system.



AT0164-L**
omni lapel with
lavalier cord

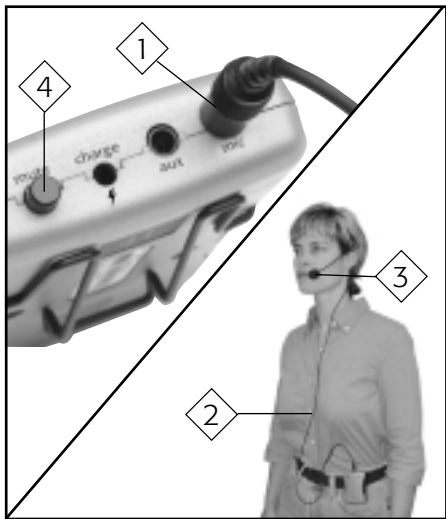


AT0667-L**
omni lapel with
lavalier cord

** Not recommended
for use with sound
field systems

4b

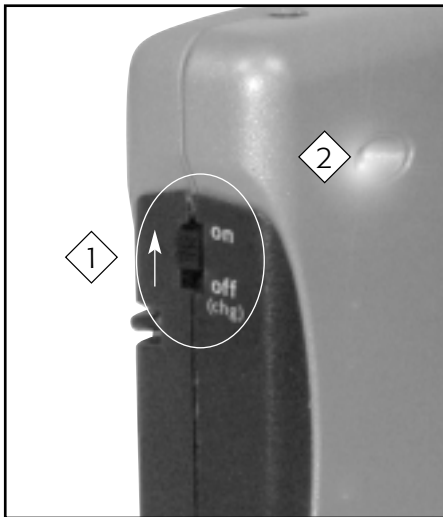
plugging in microphone and using mute switch



- 1 Plug microphone into **mic** jack on 330T unit.
- 2 The microphone cord also acts as the antenna for the 330T. To ensure a consistent transmission, keep the microphone cord as straight as possible.
- 3 Position microphone approximately 3in/7.6cm from mouth.
- 4 To mute microphone, press down on 330T **mute** button

5

turning on 330T



Push power switch up to turn transmitter power on.



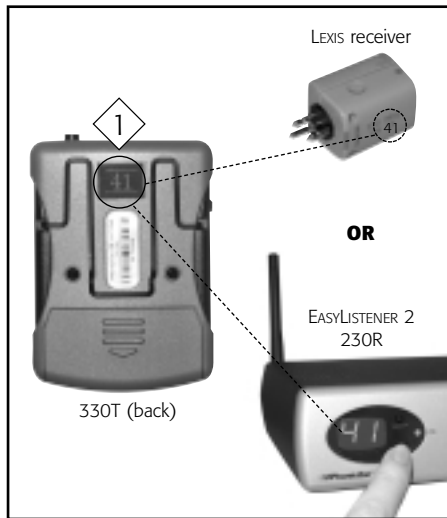
Confirm red indicator light is on.

indicator light features:

- **on** = Dim red light
- ☀ **low battery** = Blinking red light indicates approximately 1 hour of battery life remaining
- **battery charging** = Bright red light
- **improper charging** = No light

6

verifying channel setting

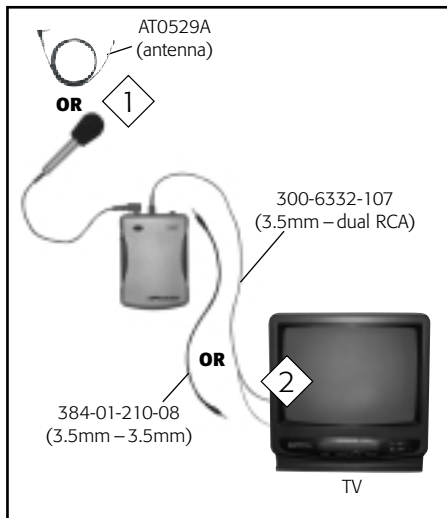


1

Locate channel number on back of 330T transmitter. Confirm your receiver unit (LEXIS, EASYLISTENER 2, RADIUM or SPRITE) is operating on the same channel.

NOTE: The 330T is available on 19 channels in the 216MHz frequency. See the chart on pages 19 & 20 for a complete list of frequencies and corresponding Phonic Ear channel numbers.

7

Using auxiliary inputs:
connecting CD, TV and other audio sources

The 330T auxiliary input jack (**aux**) allows transmission of an external audio source such as a CD player, TV, VCR, or computer.

- 1 Plug external antenna (AT0529A) or any microphone into 330T **mic** jack. (To ensure a consistent transmission, keep the microphone cord as straight as possible.)
- 2 Using appropriate auxiliary input cord, connect the 330T to the secondary sound source.

NOTE: Check the type of connection needed for the secondary sound source – refer to page 4 for available aux-in adaptor cord specs and usage descriptions.

troubleshooting

No Sound

- verify the mute switch on the top of the unit is in the off (up) position.
- verify the transmitter is operating on the same FM channel as the receiver
- verify the transmitter power is **on**
- verify the microphone cord is inserted properly into the **mic** jack
- if using the **aux** jack on the transmitter for external sound, verify the AT0529A antenna is plugged into the **mic** jack. If using a microphone cord as an antenna, make sure it is not coiled.
- verify an approved PE microphone is being used (AT0655, AT0814, AT0816, AT0291-L or AT0668-L)

Batteries NOT charging

- verify only Phonic Ear NiMH batteries are being charged. 330T unit will not charge disposable alkaline or other rechargeable batteries.
- check battery polarity markings to verify batteries are oriented properly
- verify the power switch is in the **off(chg)** position
- verify the charging cord is plugged in to the **chg** port and NOT the **aux** port
- verify the wall transformer is plugged into an operational electrical outlet

troubleshooting (cont'd)

330T won't turn on

- verify NiMH batteries are inserted properly and fully charged
- verify AAA alkaline batteries are inserted properly
- check battery polarity markings to verify batteries are oriented properly

Acoustic feedback (high-pitched squeal)

- make sure the user microphone is not too close to external speakers in the room
- make sure an omni-directional mic is not being used. Omni-directional mics should not be used with the 330T.

- lower the FM volume/gain control on the LEXIS, EASYLISTENER 2 or other receiver
- turn OPTIVOICE to medium, or low position
- have a sound professional adjust 3-band equalizer controls on the receiver, confirm they are not set to a high frequency setting

Static

- confirm microphone cord is not coiled
- verify approved PE microphones are being used (AT0655, AT0814, AT0816, AT0291-L, AT0668-L)

caring for your 330T

cleaning

Clean as needed, using a soft, damp cloth.

Do not immerse in water

storage

Clean with a soft damp cloth and remove the batteries from the transmitter. Place the unit into the 841-6440-101 carrying case.

other important notes

- Protect your 330T transmitter from excessive moisture, heat, and mechanical shocks.
- The AT0749 wall transformer may get warm under normal operation.
- To protect the transmitter's case front, position it face down on a soft surface when removing or inserting the batteries.

product specifications

transmitter: 330T

transmitting frequency	216MHz, Crystal Controlled (U.S./Canada)
modulation	FM narrow-band
operating range	up to 50m/160ft
user controls	off/on; push button mute switch
inputs/outputs	3.5mm auxiliary input jack 2.5mm microphone input jack 1.3mm charge jack
battery life	15Hr (AAA alkaline) 12Hr (AAA NiMH)
size (WXHXD)	5.9 x 8.2 x 2.0 cm/2.3 x 3.3 x 0.8 in
weight	74.8g/2.64oz (with batteries)
case	ABS plastic, painted
battery/power/ charge LED	on: power on flashing: low battery – 1 hour life on (bright): charging

frequencies and corresponding Phonic Ear channel numbers

frequency	channel	330T	EasyListener 2 230R	Lexis receiver	Radium	Sprite
216.0125	1			•		
216.2125	9			•		
216.2875	12			•		
216.5875	24			•		
216.7875	32			•		
216.9125	37			•		
216.9875	40			•		
216.025	41	•	•		•	•
216.075	42	•	•	•	•	•
216.125	43	•	•		•	•
216.175	44	•	•		•	•
216.225	45	•	•	•	•	•
216.275	46	•	•		•	•
216.325	47	•	•		•	•
216.375	48	•	•	•	•	•
216.425	49	•	•			•

frequencies and corresponding Phonic Ear channel numbers (cont'd)

frequency	channel	330T	EasyListener 2 230R	Lexis receiver	Radium	Sprite
216.525	51	•	•	•	•	•
216.575	52	•	•		•	•
216.625	53	•	•		•	•
216.675	54	•	•	•	•	•
216.725	55	•	•		•	•
216.775	56	•	•		•	•
216.825	57	•	•	•	•	•
216.875	58	•	•		•	•
216.925	59	•	•			•
216.975	60	•	•	•		•

battery warnings

Caution

- Remove all batteries when replacing.
- Do not mix new and used batteries.
- Do not mix alkaline and rechargeable batteries.
- Remove batteries from the unit if the unit is not going to be used for an extended period of time, such as during summer break.
- Do NOT dispose of batteries in fire.
- Do NOT charge Non-rechargeable batteries.
- Always dispose of old batteries in approved battery recycling bins. It may be illegal to dispose in the trash. If you are not sure of proper disposal method, please consult your local authority.

product warranty

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. The 330T transmitter has a 3-year limited 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.

warranty (cont'd)

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.**

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

warranty (cont'd)

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 never attempt to charge NiCad rechargeable batteries or alkaline disposable batteries in the 330T. Only NiMH batteries supplied by Phonic Ear should be charged in the 330T.

code of federal regulations (United States only)

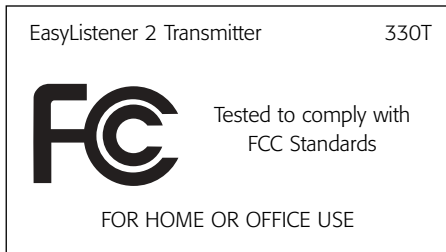
transmitter

This transmitter is authorized by rule under the Low Power Radio Service (47 C.F.R. Part 95) and must not cause harmful interference to TV reception or United States Navy SPASUR installations. You do not need an FCC license to operate this transmitter. This transmitter may only be used to provide: auditory assistance to persons with disabilities, persons who require language translation, or persons in educational settings; health care services to the ill; law enforcement tracking services under agreement with a law enforcement agency; or automated maritime telecommunications system (AMTS) network control communications. Two-way voice communications and all other types of uses not mentioned above are expressly prohibited.

This device may not interfere with TV reception or federal government radar, and must accept any interference received, including interference that may cause undesired operation.

IMPORTANT NOTE: To comply with FCC RF exposure compliance requirements, only use supplied antenna that is sold with this transmitter. Use of any other antenna which has not been approved by the manufacturer will violate FCC rules and regulation and void the user's authority to operate this device. This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

regulatory approvals



The term "IC:" before the radio certification number only signifies that Industry of Canada technical specifications were met.

u.s.a. **800.227.0735**, then press **5** • canada **800.263.8700** • international **+45 3917 7101**

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