

frontrowTM
216MHz to go

USER GUIDE

920SR speaker

921T body-worn transmitter

922T handheld transmitter

923C charging stand



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introduction

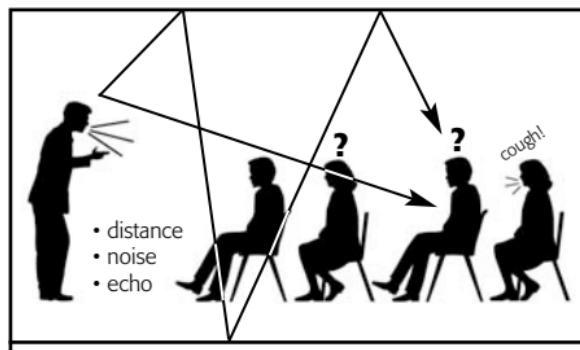
Congratulations on the purchase of your new FrontRow To Go™ active learning system!

You may have heard the term 'sound field' used to describe technology that improves classroom acoustics. Your FrontRow system fits under this category, but we call it an 'active learning system' because the benefits affect so much more than just sound.

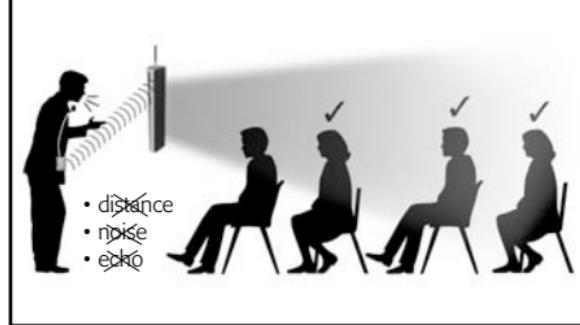
Active learning systems can help engage students, improve attentiveness to the teacher, build learning success, reduce the achievement gap, foster control and orderliness, improve test scores, and reduce vocal strain and fatigue for teachers. Numerous studies show that classrooms using active learning enjoy better student comprehension, increased student participation, better grades and fewer behavioral referrals.

Read this manual carefully to become familiar with your system and to get the most out of its many features and options.

understanding active learning and its benefits



without active learning



with active learning

setup tips

IMPORTANT!

Be sure you place your FrontRow To Go speaker and transmitter units on their charger overnight – for a minimum of 12 hours – before turning the power on and/or using them for the first time. Failing to do so can reduce battery capacity.

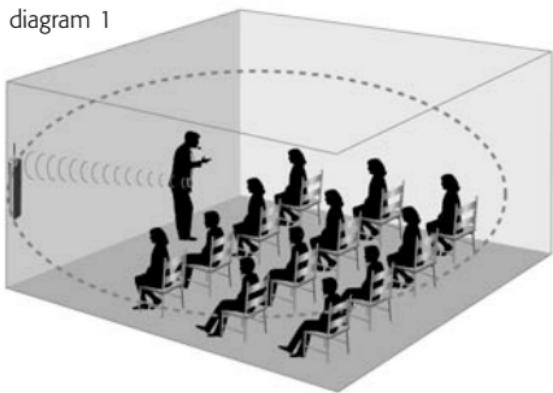
Basic setup tips

First – Identify a front corner of the room – the location from where the teacher normally teaches.

Second – Take a good look around, paying close attention to power outlet and other electronic equipment locations. Ideally, the speaker should be placed at a 5-foot distance from other electronic equipment, such as computers or radios.

Third – Determine whether to mount the speaker on the wall as shown in diagram 1, or place it on a sturdy surface using the T-bar table

diagram 1

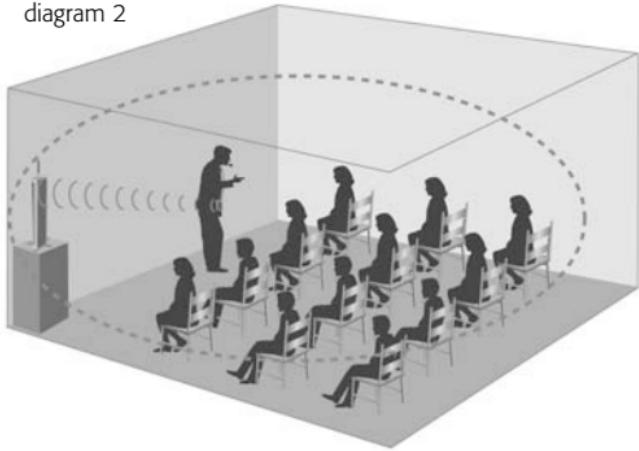


setup tips (cont'd)

mount stand in diagram 2. In either case, the speaker should be placed at a height of 3 feet/1 meter from the floor, or at level closest to the listener's ears.

Fourth – Consider whether other FrontRow To Go, FrontRow Tempo, or other radio-based active learning systems are in use in the building, and set transmitter and receiver channels accordingly. Every transmitter in a building should be on its own channel. See diagrams in section 12 for guidance.

diagram 2



If placing the speaker on a table or surface top, consider the following:

- ***Choose a location that provides easy access for the teacher, and is out of the way of students and main traffic areas.*** The speaker should be placed at least 6 feet/1.8 meters away from where the teacher stands.

setup tips (cont'd)

- ***Choose a table or surface top that is sturdy.***
Make sure the table or cabinet is structurally solid, sturdy and out of the way of foot traffic.
- ***Properly mount and securely fasten the T-bar speaker stand onto the bottom of the speaker.*** Make sure the stand is screwed on tightly, and that the speaker does not wobble when in an upright position.

If mounting on the wall, consider the following:

- ***The power supply cord needs to reach the wall outlet.*** Make sure the power supply is within reach of the speaker from its wall-mounted position.
- ***The teacher should be able to reach the controls located on top of the speaker once it's mounted.*** Once the volume is set at a comfortable level, the speaker power switch located on the lower right side of the speaker can be easily accessed by the teacher. Follow the instructions on page 28 for setting the volume at the proper level.
- ***Never mount the speaker upside down, or horizontally.*** The speaker unit must be mounted such that the controls are located at the top of the unit.

daily operating tips

In the morning –

- **Turn transmitter power 'on' and put microphone on.**
- **Turn speaker column power 'on'.** The speaker should remain plugged into a wall power outlet during the day – with the power in the 'on' position. Turn power switch to the 'off' position at night after each use. The internal battery is not being used while the speaker is plugged into a wall outlet.
- **To operate using the internal battery as a portable system,** simply unplug the speaker before use and plug back in after use – making sure you return power switch to 'off' position while plugged-in and charging. The battery takes 6 hours to reach a full charge; at full charge, the speaker column battery will last up to 8 hours unplugged.

In the evening after each use –

- **Turn transmitter power 'off';** and place it back onto the charging stand; confirm that the 'charge' indicator light illuminates. Transmitters not in use should always be placed on the charging stand – this is their home base station.
- **Turn speaker column power 'off'.** Leave speaker plugged into wall power outlet, but confirm that the power has been turned 'off'.

daily operating tips (cont'd)

Battery care and maintenance tips –

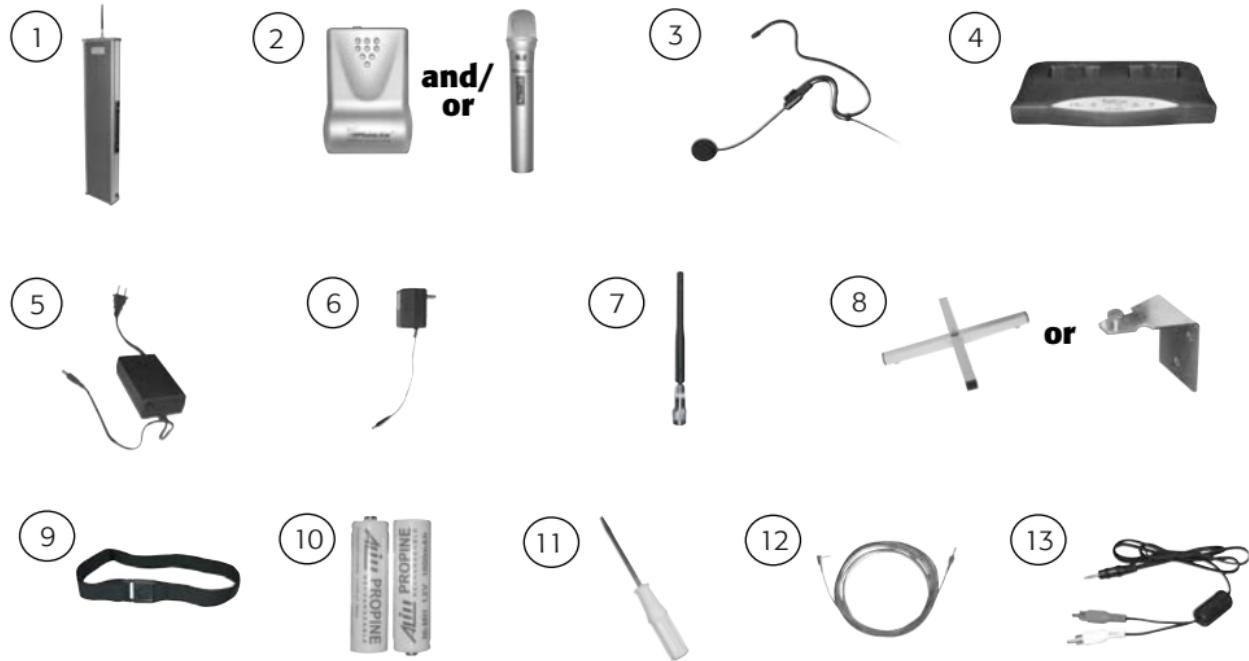
- The speaker battery will last approximately 2 years depending on usage.
- When not in use, leave speaker plugged into wall outlet with power switch in 'off' position.
- Keep speaker away from heating units – use/store in a cool dry place.
- When using speaker battery power (unplugged from wall), always remember to return power switch to 'off' position after use.
- Never mount/use speaker horizontally or upside down. Controls should be accessible from top of unit.
- Plan on buying new NiMH batteries for your transmitter every 12 months. Alkaline batteries can also be used as back-ups, however, the 923C charger will not recharge alkaline batteries. Never attempt to recharge alkaline batteries – this will cause damage to the unit and void the product warranty.
- Remember to charge all batteries overnight before initial use.

daily operating tips (cont'd)

Do not coil the microphone – since it also acts as your antenna, coiling or wrapping the cord will affect its range and may also reduce its life.

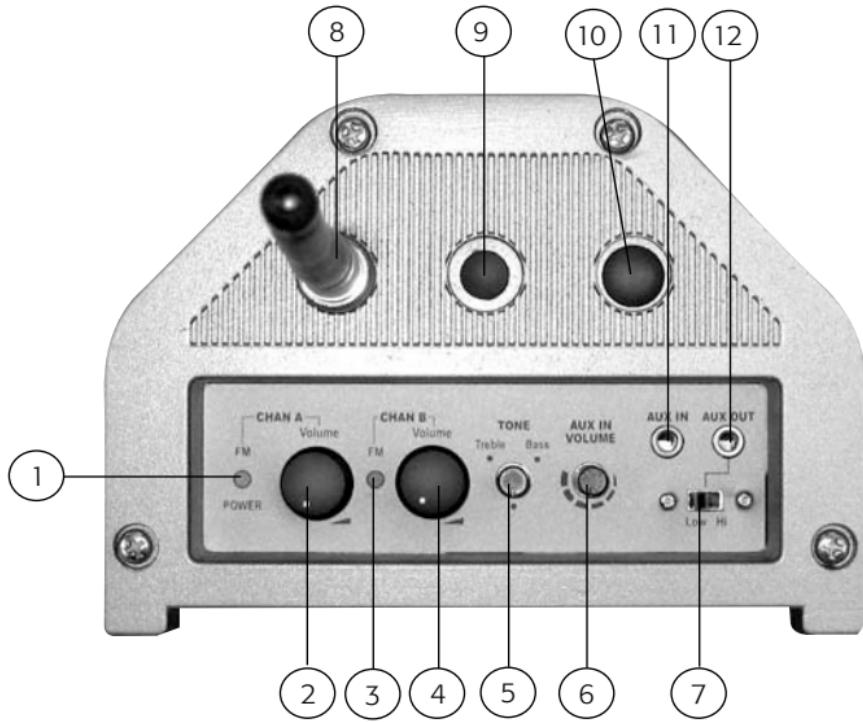
Speak at a normal level – the system is projecting your voice for you.

parts and accessories included with system



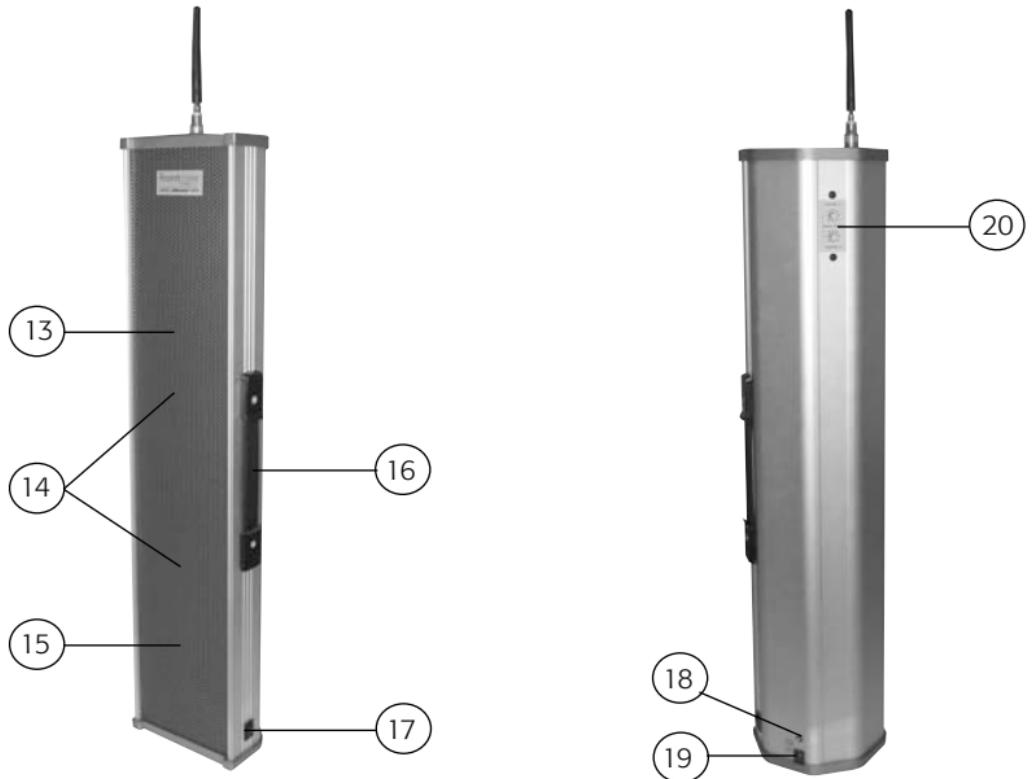
- (1) column speaker receiver
(920SR)
 - (2) body-worn transmitter
(921T)
and/or
handheld transmitter
(922T)
 - (3) plug-in mic for body-worn transmitter
(AT0655 shown)
 - (4) charging stand
(923C)
 - (5) power supply, receiver
(040-7402-106)
 - (6) power supply, charging stand
(AT0819)
 - (7) receiver antenna
(AT0831)
-
- (8) speaker table stand
(AT0823)
or
wall mounting bracket (set of 2)
(AT0820)
 - (9) elastic belt
(AT0712)
 - (10) AA rechargeable NiMH batteries
(AT0807)
 - (11) channel changer screwdriver
(330-3000-101)
 - (12) auxiliary input/output cable
(AT0532-05)
 - (13) auxiliary input cable (3.5mm – dual RCA)
(300-6332-107)

920SR column speaker features (top)



- (1) power, low battery, and reception status indicator for channel A
 - (2) power switch and volume control for channel A
 - (3) reception status indicator for channel B
 - (4) power switch and volume control for channel B
 - (5) tone control
 - (6) aux input volume control
-
- (7) aux output level switch
See page 42 for level setting chart
 - (8) antenna
 - (9) wall mount hole
 - (10) extra antenna hole (not used)
 - (11) aux input jack (3.5mm, mono)
 - (12) aux output jack (3.5mm, mono)

920SR column speaker features (front and back)



(13) speaker grille

(19) power jack

(14) two built-in speakers

(20) channel selectors

(15) internal rechargeable battery
(non-user removable)

(16) handle

(17) main power on/off switch

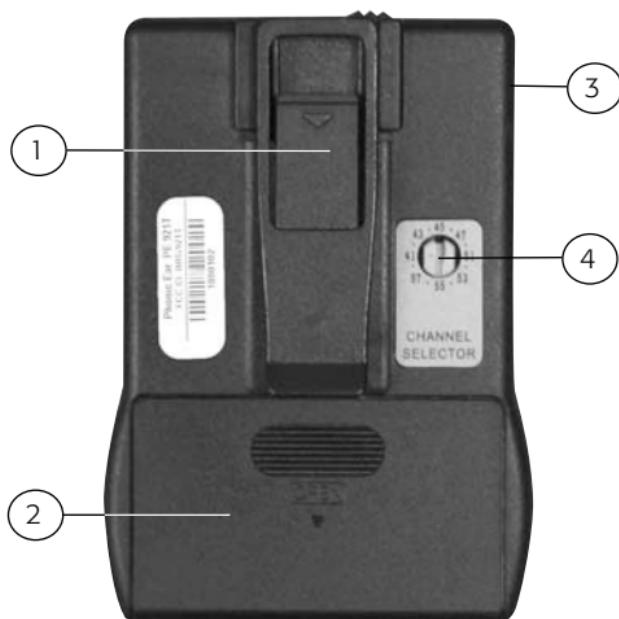
(18) power and charging indicator

921T body-worn transmitter features

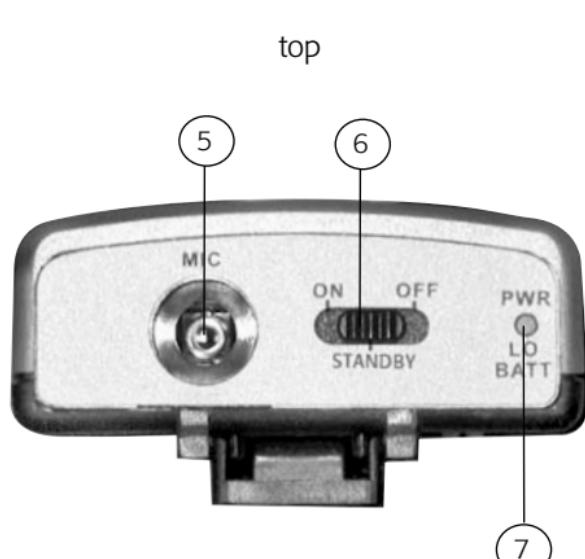
front



back



921T body-worn transmitter features (cont'd)



- (1) belt clip
- (2) battery compartment
- (3) volume control
- (4) channel selector
- (5) microphone input (2.5mm)
- (6) 3 position power switch
 - on
 - standby (mute)
 - off
- (7) power and low battery indicator light



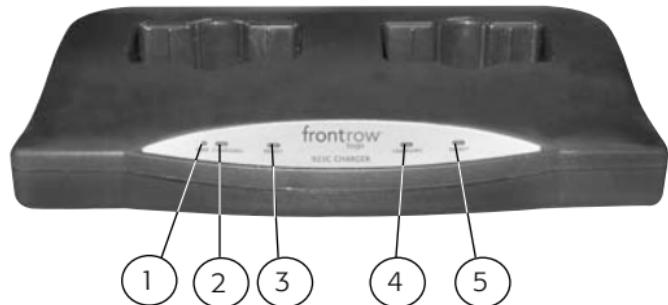
922T handheld microphone features



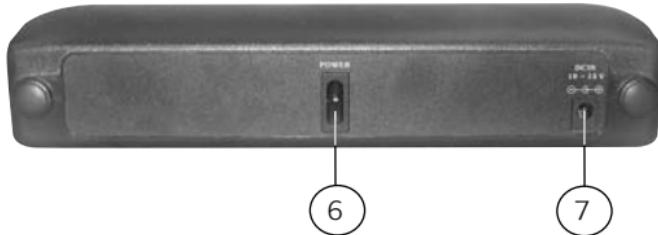
- ① LED indicator light
- ② 3 position power switch
 -  on
 -  standby (mute)
 -  off
- ③ channel selector
- ④ battery compartment
- ⑤ channel selector key
(inside battery compartment)

923C charging stand features

front



back

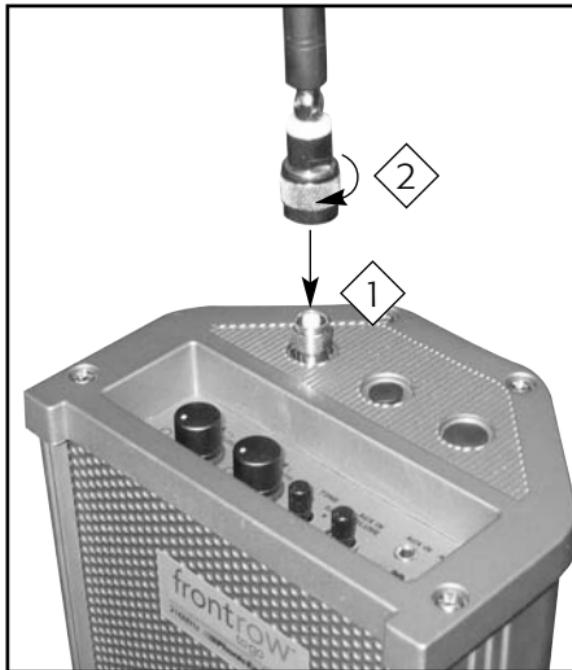


- ① power indicator
- ② pocket 1 charging indicator
- ③ pocket 1 full charge indicator
- ④ pocket 2 charging indicator
- ⑤ pocket 2 full charge indicator
- ⑥ power switch
- ⑦ DC power socket

1

system setup and operation

attach antenna



- ◆ 1 Attach antenna to top of speaker
- ◆ 2 Turn metal base of antenna clockwise until secured tightly (do not over-tighten)

2

turn on main power



if using wall outlet

- 1 Plug power supply into power/charging socket
- 2 Plug power supply into wall socket
- 3 Turn speaker on

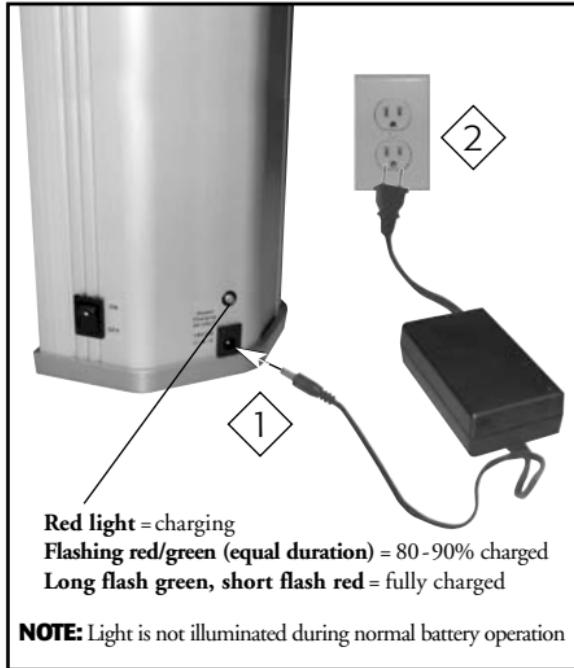
if using already charged battery

- 3 Turn speaker on

NOTE: Battery operating time is 5-8 hours.

3

charge battery



charge nightly after every use

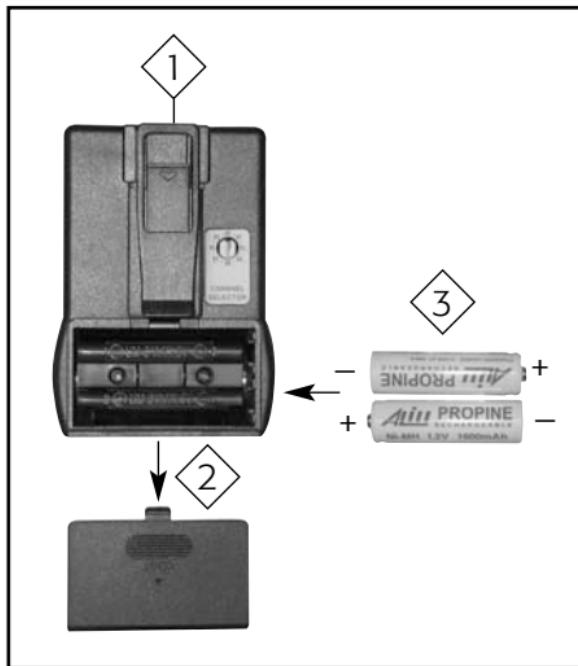
- 1 Plug power supply into power/charging socket
- 2 Plug power supply into wall socket

Recharging time is 8 hours if the battery is completely discharged and 4 to 7 hours if battery is only partially discharged.

NOTE: Battery operating time is 5-8 hours.

4

insert batteries in body-worn transmitter



1 Switch power off

2 Remove battery cover
(*push and slide off*)

3 Insert two AA rechargeable
NiMH batteries

WARNING: Never recharge alkaline batteries! This will cause damage to the unit and will void the product warranty.

5

insert batteries in handheld microphone



1 Switch power off

2 Remove battery cover
(turn counter-clockwise)

3 Insert two AA rechargeable
NiMH batteries

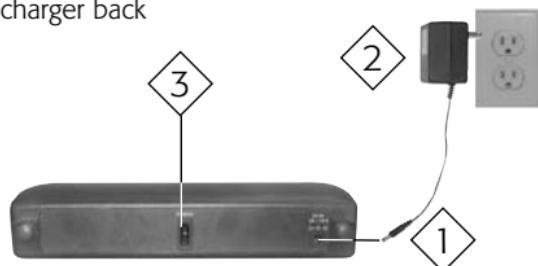
WARNING: Never recharge alkaline batteries! This will cause damage to the unit and will void the product warranty.

6

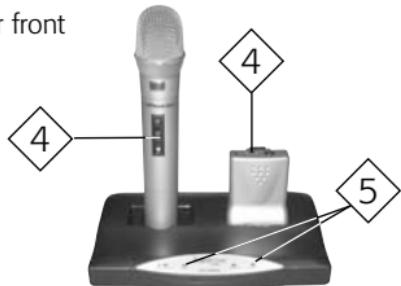
charge transmitter(s)

Never attempt to recharge alkaline batteries! This will cause damage to the unit and will void the product warranty.

charger back



charger front



- 1 Plug power supply into power jack on back of charger stand
- 2 Plug power supply (AT0819) into wall socket
- 3 Turn charger on
- 4 Turn transmitters off while charging
- 5 When green charge ready indicator lights, the transmitter batteries are full charged and ready to go. (4 to 5 hours)

7

wait until green charge indicators light (4-5 hours)



1

PWR:

Red light = charger is turned on

2

CHARGING:

Amber light = units are being charged

3

READY:

Green light = units are fully charged

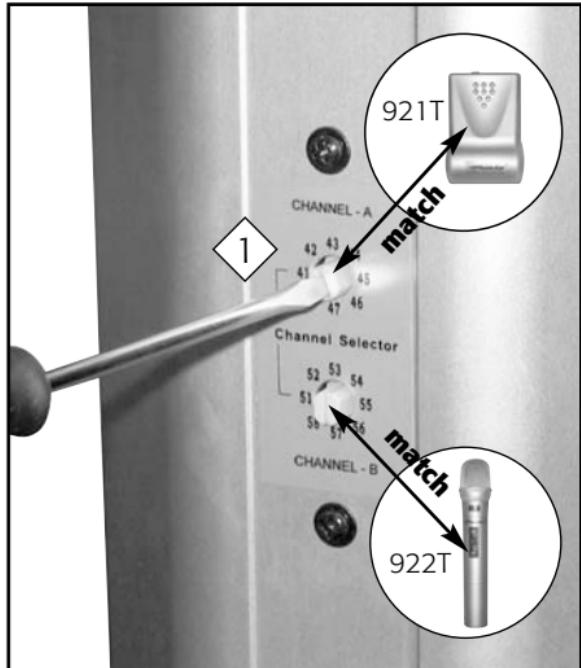
4

ERROR:

Blinking Amber light = charging error. Improper batteries have been detected. Check your batteries and replace as required. Only NiMH AA batteries can be charged. Unit will not charge disposable Alkaline batteries or NiCad batteries.

8

select channel



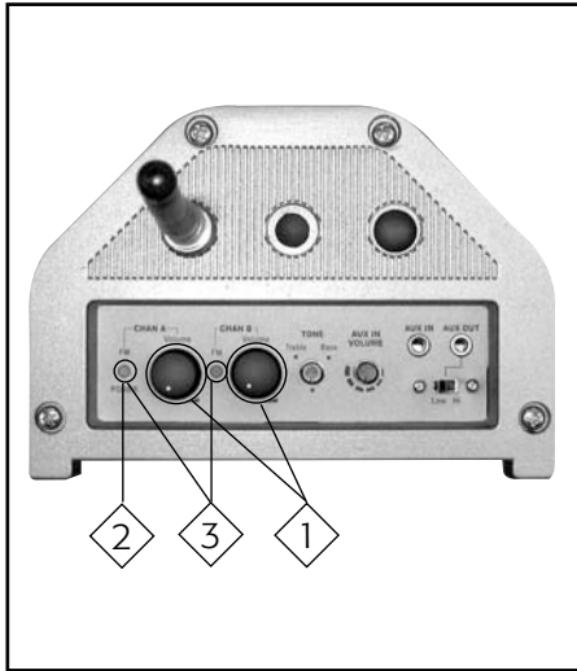
1

Use a screwdriver to adjust the **Channel A** selector on the back of the speaker to match the channel number of either the 921T and/or the 922T transmitter(s).

NOTE: Consider whether other FrontRow To Go, FrontRow Tempo, or other radio-based active learning systems are in use in the building, and set transmitter and receiver channels accordingly. Every transmitter in a building should be on its own channel. See diagrams in section **[12]** for guidance.

9

activate receivers



1 Turn receiver on by turning **Channel A** and/or **Channel B** volume control knob(s) to the right

2 Check power indicator light (remember that main power must also be on – see [2]):

Flash red once = adequate power

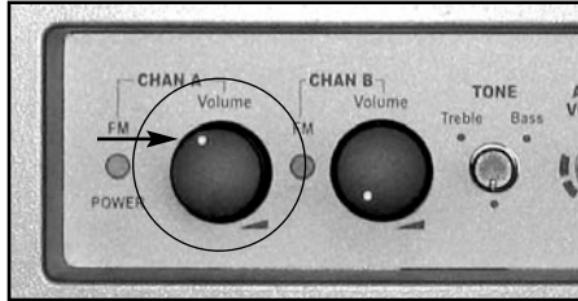
Continuous red = low battery

No light = battery does not have power and requires recharging or power supply is not connected properly

3 Turn on a 921T or 922T transmitter and check FM indicator light(s):
Green = receiving FM signal

10

setting FM volume



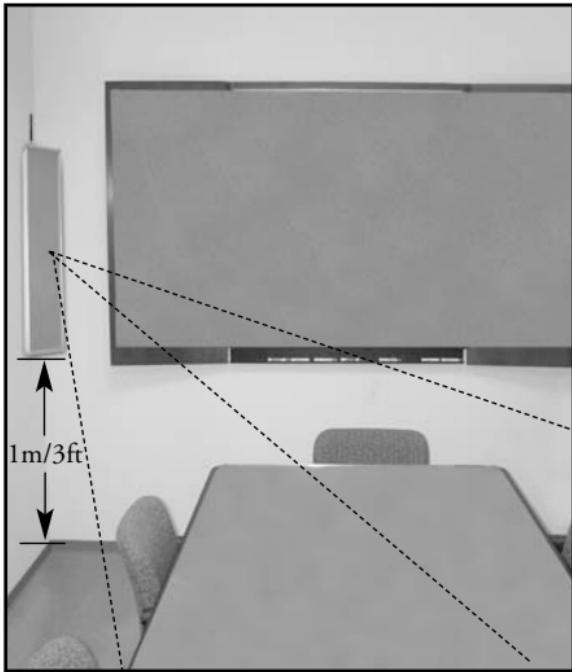
Follow steps 1 or 2 below to adjust **FM volume** setting to proper level. Two people are needed to set the volume level. It is difficult to hear your own voice and make adjustments to it.

NOTE: The average volume setting is in the 11:00 position (see photo), but may change depending on room acoustics and noise level.

- 1** **With a sound level meter** - Take a level reading in the "A" setting in the center of the room during normal classroom activity, and another reading of the teacher's amplified voice (without the class activity). The level of the teacher's voice should be set between 10-15 decibels above room noise level.
- 2** **Without a sound level meter** - First, ask someone other than yourself (if you are the teacher) to listen to the amplified voice and make volume adjustments. An ideal volume level is achieved when the listener can hear the amplified voice at a comfortable level and the volume level from the speaker and teacher's mouth is comparable. If you can hear yourself through the loudspeakers, the volume setting may be too high and should be decreased.

920SR speaker placement and mounting

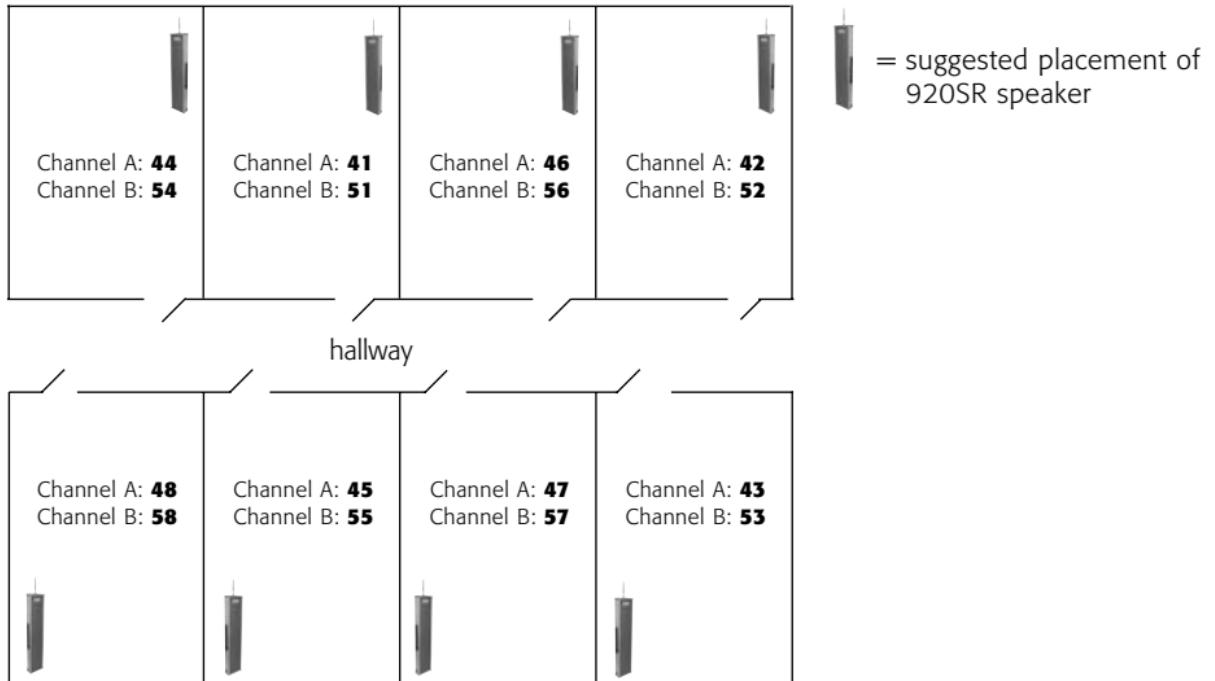
speaker positioning



Place speaker in a corner of the room facing listeners. Mount speaker on wall using brackets or place speaker on a surface using a speaker stand. The bottom of the speaker should be about 1 meter/3 feet from the floor. (See **setup tips** on page 3).

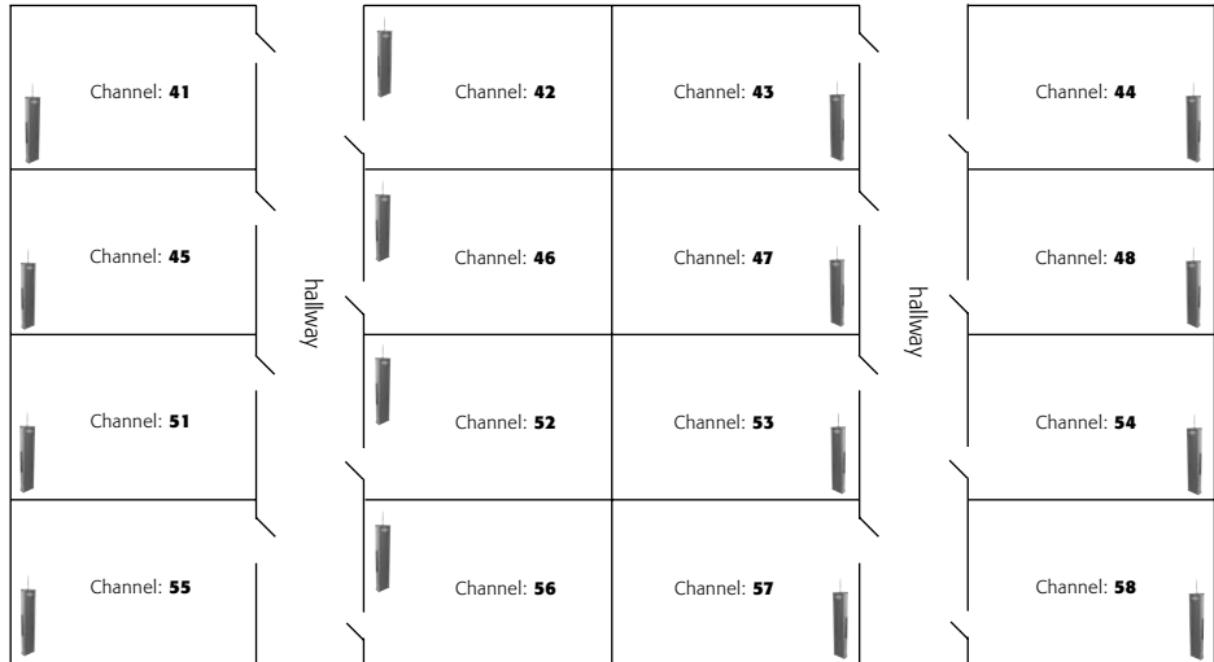
12a

channel mapping: placement diagram for multiple system installations (double channel - 8 rooms total)



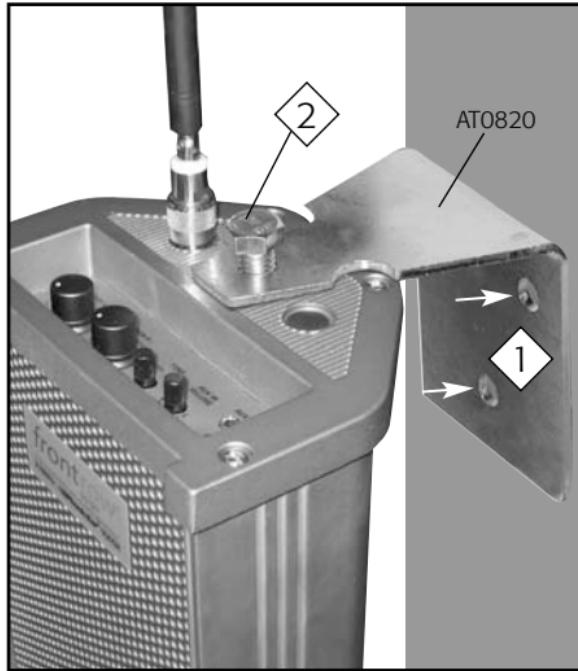
12b

channel mapping: placement diagram for multiple system installations (single channel - 16 rooms total)



13a

wall mounting (option 1)



1 Attach brackets to wall

2 Screw mounting brackets to top and bottom of speaker

13b

mounting on floor stand (option 2)



1

Screw speaker stand into hole on bottom of speaker.

- Turn clockwise to tighten
- Turn counter-clockwise to loosen

AT0824 floor stand
is also available

13C

seal wall mounting hole if using table stand



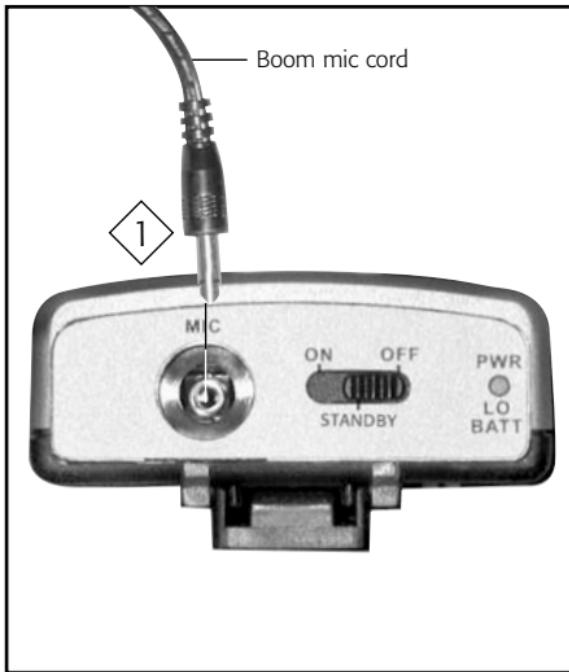
1

Place plastic plug into mounting bracket hole on top of speaker to keep out dust

14

921T body-worn transmitter operation

plug microphone in



1

Plug microphone cord into
mic jack on top of body-worn
transmitter

15

put on microphone and adjust for proper distance from mouth

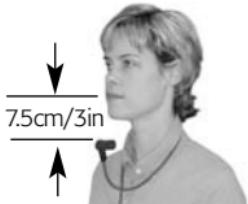
Maximum distance from mic to mouth is 6 in/(15cm); 3 in/(7.5cm) is ideal.



optimum
AT0655 boom mic (two wearing options)
performance: ★★★★



AT0814 earhook mic
performance: ★★★★



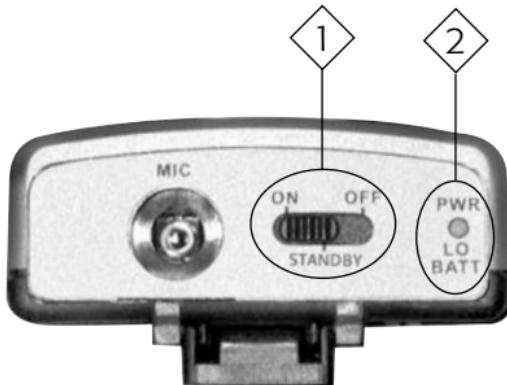
AT0816 collar mic
performance: ★★



AT0291-L directional lapel mic
performance: ★★

16

turn power on



- 1 Switch power on
- 2 Check indicator light:
Continuous green = adequate power
Continuous red = low battery

battery life

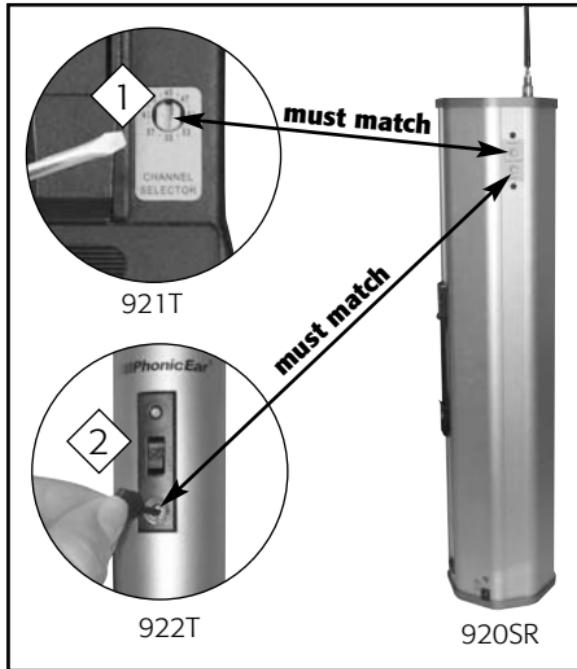
NiMH rechargeable AA = 12 hours (approx.)

Alkaline disposable AA = 15 hours (approx.)

WARNING: Never recharge alkaline batteries! This will cause damage to the unit and will void the product warranty.

17

adjust transmitter(s) frequency



1

Use a screwdriver to turn frequency selector to channel number that matches the channel set on column speaker

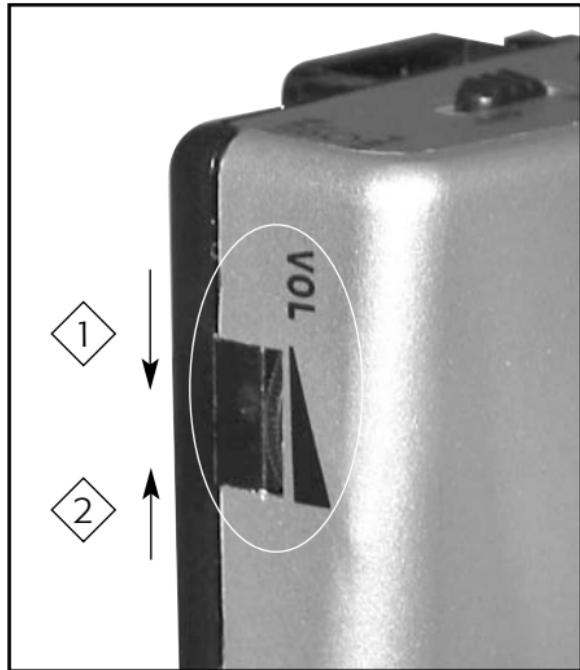
2

If using both body-worn and hand-held transmitters set one transmitter channel to match a **Channel A** on the speaker column, and the other transmitter channel to match a **Channel B** channel on the speaker column.

NOTE: Never operate two transmitters on the same channel or interference will result. To use two transmitters, set the first to match receiver **Channel A** and the second to match receiver **Channel B**.

18

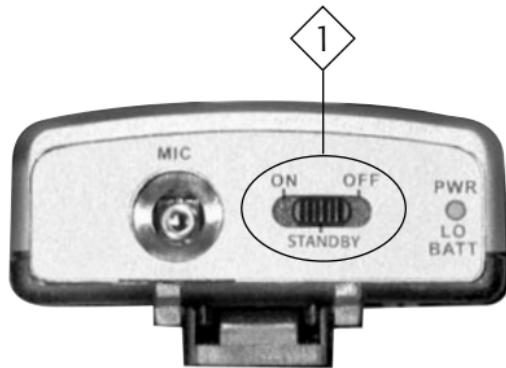
adjust body-worn transmitter volume



- 1 Increase transmitter volume for greater mic sensitivity and sound clarity
- 2 Reduce transmitter volume if feedback occurs

19

activate standby/mute mode



1

Activate **standby** mode to eliminate white noise when not speaking

MUTE: Standby mode can also be used as a microphone/transmitter mute switch. The mute feature allows teachers to have a private conversation without needing to turn the transmitter **off**.

20

922T handheld transmitter operation

turn power on



1

Turn power on by pushing power switch up

21

check indicator light



1

Check indicator light:

Continuous green = adequate power

Continuous red = low battery

battery life

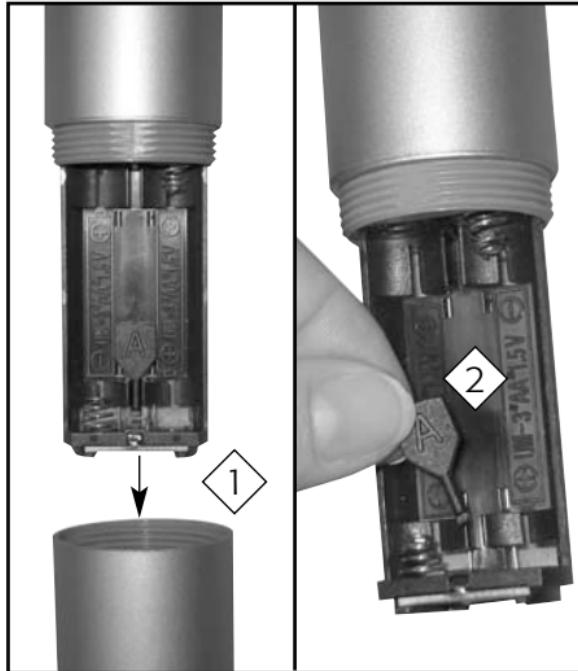
NiMH rechargeable AA = 12 hours (approx.)

Alkaline disposable AA = 15 hours (approx.)

WARNING: Never recharge alkaline batteries! This will cause damage to the unit and will void the product warranty.

22

remove channel adjustment key



- 1 Open battery compartment door and remove batteries
- 2 Remove channel adjustment key

23

adjust transmitter channel to match receiver channel



1

Using adjustment key, turn channel frequency selector to channel number that matches the channel set on column speaker

NOTE: Never operate two transmitters on the same channel or interference will result. To use two transmitters, set the first to match receiver **Channel A** and the second to match receiver **Channel B**.

24

standby mode



1

Activate standby mode to mute voice and eliminate white noise when not speaking

25

transmitters that can be used with 920SR receiver/speaker

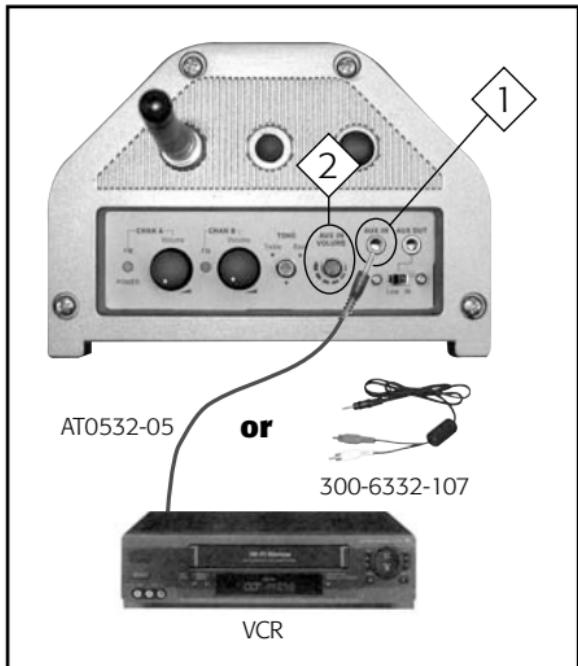
★★★★ = most compatible ★ = least compatible

transmitter	compatible (no adaptor cord required)	performance rating	accessory needed	comments
921T FrontRow To Go	✓	★★★★	none	
922T FrontRow To Go	✓	★★★★	none	
330T FrontRow Tempo	✓	★★★★	none	
300TS-216 Sprite	✓	★★★	none	best when used with AT0655 boom mic
Lexis transmitter (as mic)	✓	★★★	✓	a) Lexis requires the use of the AT0655R boom mic b) may require use of external antenna for better range (389-02-120-02) c) set microphone to omni mode  d) set sensitivity level to HI
Phonak Campus S TX5	✓	★★★	✓	due to feedback, use of external boom mic from Phonak is recommended
Phonak HandyMic TX3	N/A	N/A	N/A	a) built-in mic prone to feedback b) requires use of external mic, which the HandyMic does not accommodate

26

aux in – connecting to TV, CD, VCR, etc.

connecting speaker to TV, CD, VCR, etc.



1 Using either the AT0532-05 or 300-6332-107 adaptor cords, connect VCR, TV, CD, computer or other audio source to **AUX IN** port on top of speaker

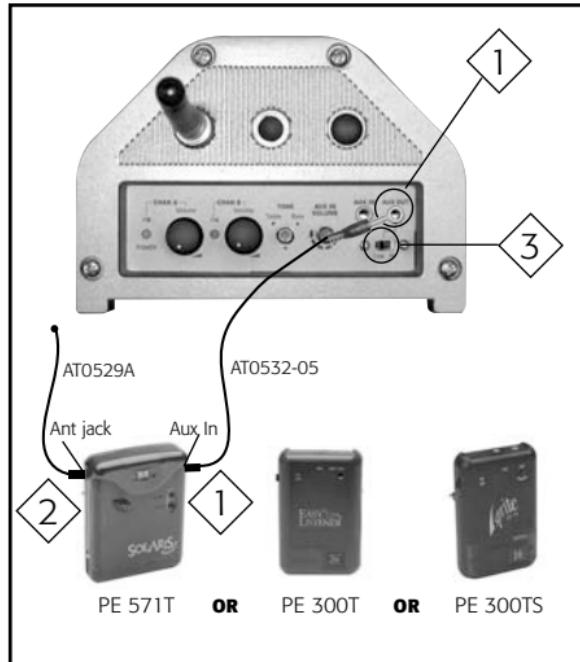
2 Use **AUX IN VOLUME** control to adjust volume

NOTE: AUX IN can be used simultaneously with both Channel A & B.

27

aux out – connecting to personal FM devices

connecting to SOLARIS, EASY LISTENER, SPRITE or other transmitter
(for rebroadcast of audio to students with hearing impairment)



- 1 Connect AT0532-05(ft) cord to **AUX** input jack of either SOLARIS, EASY LISTENER, SPRITE, or other transmitter. Connect other end of cable to **AUX OUT** port on top of speaker.
- 2 Connect antenna AT0529A (not included with transmitter system) to **Mic/Ant** jack on transmitter
- 3 Refer to level setting guide on next page to identify proper level for your transmitter

NOTE: Common transmitters and recommended level settings are shown below. Because the level setting is universal, other transmitters not listed below may be used as well – simply set the **aux out** level to the position at which the receiver wearer hears a strong distortion-free signal.

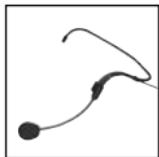
product name/part	aux in jack size	aux out level setting
Easy Listener 300T	3.5mm	High
Sprite 300TS	3.5mm	High
Sprite 300TS-216	3.5mm	High
Solaris 571T	3.5mm	High
Lexis 871T transmitter	3.5mm	High
Phonak Campus S TX5	3.5mm	High
Phonak HandyMic TX3	3.5mm†	High
Phonak MicroVox TX2	2.5mm*	High

* For transmitters with a 3.5mm jack size, simply attach the transmitter to the AT0805 aux out accessory cord. For 2.5mm products, use the aux out adapter plug (310-2544-1341) 

† Requires special adaptor cord provided by Phonak (P/N 52117) and Radio Shack adaptor (P/N 274387).

additional system accessories

microphone options



AT0655
behind-the-neck
boom microphone



AT0814
earhook microphone



AT0816
FM collar microphone
with mute switch



AT0291-L
directional microphone
with lavalier cord

receiver accessories



AT0820
wall mounting bracket
(set of 2)



AT0823
speaker table stand



AT0824
speaker floor stand



AT0822
carrying bag



AT0801
aux-box (allows up
to four secondary
audio inputs)

additional system accessories (cont'd)

transmitter accessories



AT0532-15
auxiliary input/
output cable
(3.5mm–dual RCA)
(15ft/4.6m)



AT0529A
transmitter antenna



310-2544-1341
aux-out adaptor plug
(3.5mm–2.5mm)



AT0807
AA rechargeable
NiMH batteries

troubleshooting

no FM reception (Channel A, Channel B indicator does not have green light)

- Verify the transmitter is turned on
- Verify the frequency number on the transmitter matches the frequency number on receiver
- Verify transmitter batteries are charged
- Verify speaker antenna is connected properly

weak sound from speaker

- Increase volume on the speaker
- Turn up transmitter volume
- Make sure AT0655 boom microphone (or other mic) is being worn correctly

speaker is receiving a signal but no sound is coming out

- Verify microphone is connected properly to transmitter and is working correctly

feedback from speaker

- Turn down the volume on the transmitter
- Turn down the volume on the speaker
- Make sure the person wearing the transmitter is not too close to the speaker
- Move speaker so that it is facing away from presenter and toward listeners
- Make sure AT0655 boom microphone (or other mic) is being worn correctly

troubleshooting (cont'd)

speaker does not turn on (power indicator does not flash red)

- Verify main power switch on the bottom of the unit is turned on
- Verify Channel A and Channel B volume control knobs are turned on
- Verify power supply is plugged securely into speaker and wall socket
- Verify wall socket works

speaker battery does not charge

- Connect power supply to speaker and charge for four hours. If speaker battery does not hold a charge, send the unit to Phonic Ear Service department for replacement (battery must be replaced after one year of continuous use).

speaker is picking up FM interference or hum

- Check to make sure no other wireless systems are operating on similar frequencies
- Check to make sure the system is not placed too close to a computer
- Check to make sure metal objects are not placed too close to transmitter or speaker (i.e. jewelry, metal shelves)

amber charge light is flashing when I attempt to charge my transmitter

- Replace your batteries with a set of new NiMH cells (AT0807).

FrontRow To Go channel numbers and corresponding frequencies

Channel #	Channel A	Channel #	Channel B
41	216.025 MHz	51	216.525MHz
42	216.075MHz	52	216.575MHz
43	216.125MHz	53	216.625MHz
44	216.175MHz	54	216.675MHz
45	216.225MHz	55	216.725MHz
46	216.275MHz	56	216.775MHz
47	216.325MHz	57	216.825MHz
48	216.375MHz	58	216.875MHz

product specifications

two channel column speaker: 920SR

carrier frequency range/ frequencies	216.025 – 216.875MHz 16 total
modulation	FM (F3E)
output power	maximum 36W @ 4Ω x 2
power requirements	110V/240V AC adaptor 15V DC/2A, Battery 12V/2.7A (rechargeable, sealed lead-acid, 1-1.5 year life with continuous usage)
frequency response	100Hz – 9kHz
total harmonic distortion	<2%
system signal-to-noise ratio	>65 dB (at rated output)
inputs	AUX x 1, power & charge
output	AUX x 1 (High: 700 mV/Low: 100mV)
controls	tone, channel A & channel B power/volume, aux volume, high/low output, master power, channel selector

dimensions (wxhxd)	100 x 660 x 145 mm/ 3.9 x 26 x 5.7 in
weight	5kg/11lbs
recharging time	8 hours for initial charging 4 – 7 hours for recharging
battery operating time	5 – 8 hours (continuous operation)
speaker stand	optional table stand (AT0823), floor stand (AT0824), or wall brackets (AT0820)
de-emphasis	75µs
squelch	RSSI

product specifications (cont'd)

body-worn transmitter: 921T

carrier frequency range/ frequencies	216.025 – 216.875MHz 16 total
modulation	FM (F3E)
total harmonic distortion	<1.5%
frequency response	50Hz to 12KHz
frequency stability	.0005%
maximum modulation	± 25KHz, with level limiting
pre-emphasis	75µs
dynamic range	100dB
operating range	>34m/110ft
dimensions (wxhxd)	65 x 90 x 25 mm/ 2.5 x 3.5 x 1 in
weight	51g/1.8oz
controls	on/standby/off/channel selector/volume
inputs/outputs	2.5mm microphone input jack

battery	NiMH rechargeable (1600mA); alkaline disposable (2AA)
battery life	NiMH rechargeable: 12 hours (approx.) alkaline disposable: 15 hours (approx.)
recharging time	6 hours

product specifications (cont'd)

handheld mic transmitter: 922T

carrier frequency range/ frequencies	216.025 – 216.875MHz 16 total (see chart below)
mic	dynamic microphone
antenna	built-in
RF output	15mW
battery	NiMH rechargeable battery; alkaline disposable; 1.5V x 2 AA
battery life	NiMH rechargeable: 12 hours (approx.) alkaline disposable: 15 hours (approx.)
recharging time	6 hours (NiMH batteries)
dimensions (dia x length)	54 x 237 mm/2.1 x 9.3 in
weight	230g/8.1oz
controls	on/standby/off/channel selector

charging stand: 923C

power supply	AC adaptor (DC 12V / 0.5A)
indicator lights	LED green = battery ready LED orange = recharging LED red = power on LED blinking orange = fault (battery bad)
recharging time	NiMH (1300mA): 4 hr
dimensions (wxhxw)	135 x 47 x 230 mm/5.3 x 1.9 x 9 in
weight	360g/12.7oz
controls	on/off switch

regulatory approvals and clearances

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 and clearances (cont'd)

receiver: part 15, subpart B



This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to

radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

regulatory approvals and clearances (cont'd)

FCC notes

The FrontRow To Go active learning system is approved by the FCC (Federal Communications Commission). The use of the system may be governed by specific FCC rules and FCC licensing or notifications may be required. Consult your local FCC office for detailed information.

Phonic Ear FM receivers and FM transmitters, when required, are approved by the Federal Communications Commission (FCC) in the U.S. and Industry Canada. Other government approvals are available upon request. (Other international regulations may also apply.)

Any changes or modifications made to any government-approved element of this instrument, without the express approval of Phonic Ear Inc in writing, could void the user's authority to operate those elements of the system.

Part 95

This transmitter is authorized by rule under the Low Power Radio Service (47 CFR 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 service under agreement with a law enforcement agency; or automated maritime telecommunication system (AMTS) network control communications. Two-way voice communications and all other types of uses not mentioned above are expressly prohibited.

regulatory approvals and clearances (cont'd)

This device may not cause interference and must accept any interference received, including interference that may cause undesired operation.

These devices may not interfere with TV reception or Federal Government radar.

IC notes

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

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

If TV channel 13 is used in the area, the installer shall reduce or adjust the RF radiated power so that near-by TV channel 13 receivers do not receive radio interference from the system installed. Suggestions: A test with a TV receiver equipped with "rabbit-ear antenna" and tuned to channel 13 should be conducted, at the perimeter of the users' intended coverage area and not over-lapping other user's areas without the latter's consent. If this does not solve the problem, a channel near the 217 MHz edge and not near 216 MHz should be tried.



This product has been cleared by the U.S. Food and Drug Administration for use by persons with normal hearing and hearing impairment.

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