

# User Guide



**Lifeline**  
*Amplification Systems*

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**800 236 4327**

# Enjoy Your Bravo Portable Amplification System

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visit our web site:  
[www.lifelineamp.com](http://www.lifelineamp.com),  
 your online resource  
 for price lists, service  
 orders, and accessories.

If you have questions  
 at any time about your  
 Bravo System, please  
 call us toll-free at:  
 1-800-236-4327

The *Bravo* portable amplification system is the ideal amplification system for larger spaces. The *Bravo* has many applications where quality sound, portability, and ease of use are requirements for the audio system. The *Bravo* has many features and benefits unique to the portable amplification systems market. You will see the benefits and hear the clarity that comes from this uniquely designed system from the moment you turn it on.

This Users Guide has been designed to provide you with product features, troubleshooting tips, and important things to remember and understand about your *Bravo* system. Our goal at Lifeline Amplification Systems is to design high quality amplification systems with superior sound quality that are easy for the customer to operate. If you have any questions concerning your *Bravo* system, please feel free to call us toll free at: 1-800-236-4327.

## EQUIPMENT

### ONE TRANSMITTER SYSTEM:

- 1 Powered Speaker/Amplifier
- 1 Wireless Transmitter with either headset, collar, or handheld wireless microphone
- 1 LB-1 9 Volt Battery (inside wireless transmitter)
- 1 LC-3 Charger
- 1 WH-1 Charging Cable (for headset and collar models only)
- 1 Wireless Carrying Case

### OPTIONAL WAYS TO ORDER THE BRAVO:

- Microphone options include headset, collar, or handheld wireless microphones
- You can order the Bravo with one or two wireless microphones

## WARRANTY

The powered speaker and transmitter have a five year warranty against manufacturer's defects. All other items (batteries, cables, microphones) have a one year warranty.

Lifeline Amplification Systems will repair and/or replace, at our option, any unit that does not function properly within the warranty time period. Units under warranty needing repair should be returned to Lifeline Amplification Systems freight prepaid. It's very important the customer calls Lifeline Amplification Systems at 1-800-236-4327 for a return authorization number for prompt service. All units under warranty will be returned (freight prepaid) to the customer. Product misuse, neglect, or abuse is not covered under warranty. PLEASE KEEP THE BRAVO SHIPPING CARTON IN CASE YOU NEED TO SEND IT BACK TO LIFELINE AMPLIFICATION SYSTEMS FOR WARRANTY REPAIR.

## REPAIR

Most problems can be solved with the troubleshooting guide in the back of this user guide. If you are having problems after looking at the troubleshooting guide, call us toll free at 1-800-236-4327 and we will be happy to help you.

## CLEANING

We suggest your system be cleaned a minimum of every two years. Please contact Lifeline Amplification Systems for a price quote and shipping instructions.

# Beltpack Transmitter

## 1. MICROPHONE JACK

Detachable microphone cable plugs in here.

## 2. ON/OFF AND STANDBY SWITCH

The switch on the transmitter has three positions: “on,” “off” and “stand by.”

When “on,” the talker’s voice is amplified and broadcast throughout the room. An initial “pop” sound may be heard when turned to the “on” position.

The standby mode is used when the talker wishes to speak to a single individual or small group privately. As a general rule, use the standby switch when the system will be used within a 15 minute time period. If not in use for more than 15 minutes, the transmitter should be turned off to conserve battery life.

## 3. POWER INDICATOR LIGHT

The light on top of the transmitter will shine red when the transmitter is in the stand by mode. It will shine green to indicate that the system is on. If the light is not lit, then either the power is not on or the battery is low.

## 4. BELT CLIP

This handy clip can be used to fasten the transmitter to a belt, waistband or pocket. (Found on back side of transmitter.)

## 5. BATTERY COMPARTMENT

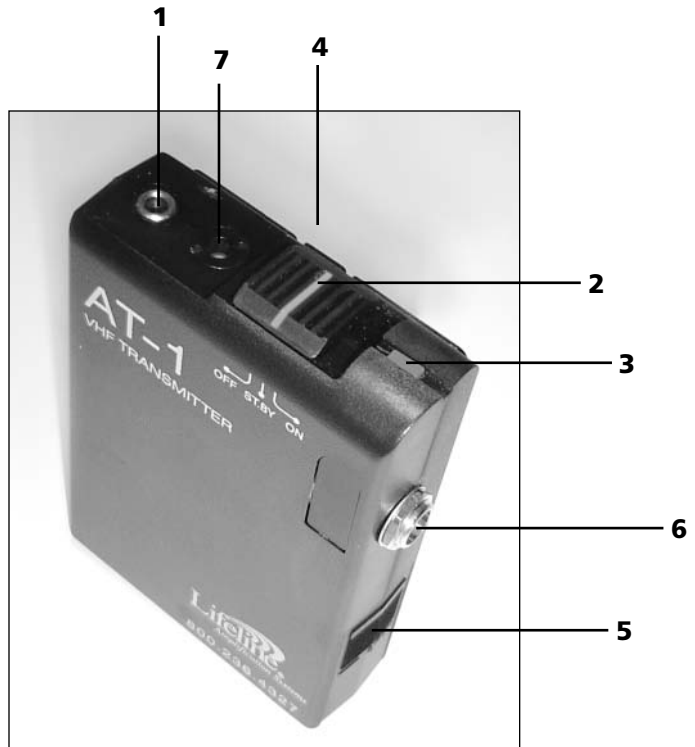
The AT-1 transmitter uses one 9-volt Nickel Metal Hydride rechargeable battery. **DO NOT USE ANY OTHER RECHARGEABLE 9-VOLT BATTERY** in the AT-1 transmitter, or it will not perform properly. Average battery life is **six hours per charge.**

## 6. CHARGING JACK

This charging jack is used to charge the battery without having to take the battery out of the transmitter. A charging cable has been provided with your *Bravo*.

## 7. GAIN CONTROL

Used to raise or lower the sensitivity of the microphone. Small screwdriver is provided with your system.



Beltpack Transmitter (belt pouch provided)

# Handheld Transmitter

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## 1. MICROPHONE ELEMENT

The Bravo handheld wireless uses a high quality microphone. The metal casing protects the microphone however, be careful not to drop the microphone, as this could cause damage to the microphone element.

## 2. POWER SWITCH

This switch needs to be in the PWR position for the microphone to operate. The power light indicator (#3) will glow when the power switch is turned on and a charged battery is inserted properly. A slight click may be heard when turning power on and off.

## 3. POWER SWITCH LIGHT

This light will glow when the power switch is in the PWR (on) position and a charged battery is inserted properly.

## 4. LOW BATTERY

The low battery light will glow when you have less than 1 hour of battery life left in the system.

## 5. MUTE SWITCH

The mute switch enables the microphone to be on or off without hearing a click in the system. The system will be working when the Mute switch is on and the microphone power switch is on and the Bravo powered speaker is on. When the Mute switch is in the “mute” position (down), the microphone is still draining the battery and all circuitry is active except the microphone is off.

## 6. BATTERY COMPARTMENT

Turning the compartment cover “counter clockwise” will unscrew the battery compartment cover. The rechargeable battery should be connected to the battery terminals making a good connection. Be sure to pull the battery towards you when removing (do not pull the battery at an angle as it will loosen the battery terminals). You may use either an alkaline 9 volt battery or 9.6 volt nickel metal hydride rechargeable battery (part number LB-1 from Lifeline Amplification Systems- see price list for ordering information). A 9.6-volt NiMH Rechargeable battery is included with this system.

## 7. INTERNAL GAIN CONTROL

This is pre-set from the factory for recommended settings. Only change this as a last option for adjusting gain (use controls on the Bravo amplifier/speaker first). Turning this control to the right increases volume. The internal gain control is found above the 9-volt battery terminal (this can be found by unscrewing the battery compartment cover.)



# Amplifier/Speaker

## INPUT SECTION

### 1. MICROPHONE 1 VOLUME CONTROL

If your Bravo system was ordered with a wireless microphone, microphone 1 volume control will be the volume control for this microphone. The microphone 1 volume controls the volume for any items plugged into the microphone 1 input as well (#7 below). We do not recommend you plug anything into the input of channel 1 if you are using an internal wireless. We recommend a starting volume of 5 (1/2 way).

### 2. MICROPHONE 2 VOLUME CONTROL

If your Bravo system was ordered with two wireless microphones, microphone 2 volume control will be the volume control for this microphone. The microphone 2 volume controls the volume for any items plugged into microphone 2 input as well. We do not recommend you plug anything into the input of channel 2 if you ordered the Bravo with two wireless (even if you are not using the second wireless at this time.) We recommend a starting volume of 5 (1/2 way).

### 3. CD/TAPE VOLUME CONTROL

This controls the volume of anything plugged into the RCA inputs below this volume control. Typical items include computer, VCR, CD player, etc.

### 4. INSTRUMENT VOLUME CONTROL

This controls the volume of anything plugged into the 1/4" input below the volume control.

### 5. REVERB CONTROL

The Bravo includes an internal spring reverb. The reverb control is a master reverb for both channels 1 and 2 (reverb does not affect channels 3 and 4.) The reverb is intended for singing or musical purposes.

### 6) REVERB ON/OFF

Reverb on/off gives you the ability to turn the reverb on and off on Channels 1 and 2. Place the switch to the right to turn reverb off and to the left to turn reverb on. The amount of reverb desired is controlled from the reverb volume (number 5 above).

### 7. MICROPHONE/LINE LEVEL INPUTS

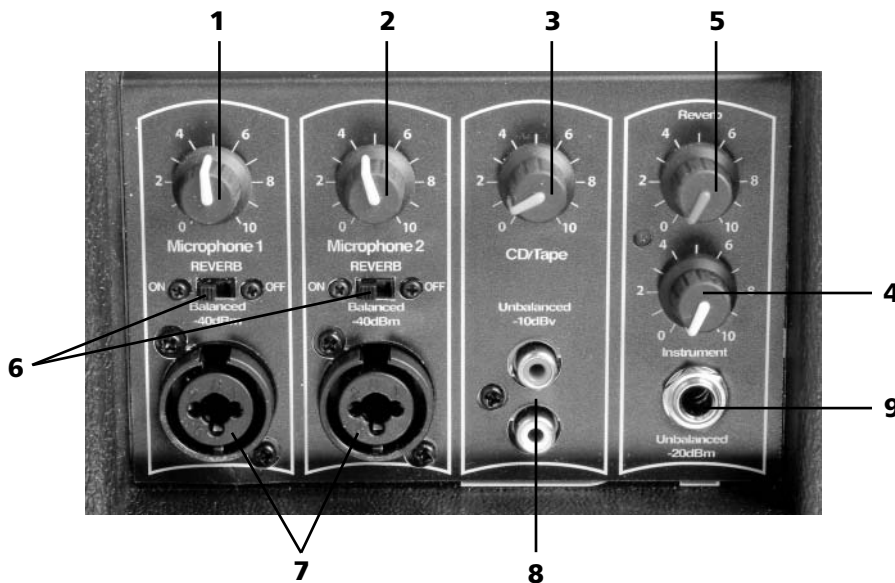
Channels 1 and 2 have a custom input jack that can accept XLR or 1/4" inputs. We do not recommend plugging items into these inputs if a Bravo wireless was ordered with internal wireless on these inputs.

### 8. RCA INPUTS

Dual RCA jacks are provided for easy interface to CD players, tape decks, or similar devices. These two RCA jacks are summed electronically to a single mono signal.

### 9. INSTRUMENT INPUT

A single jack has been provided for easy interfacing of musical inputs such as guitar, electronic keyboard, etc. Do not plug a microphone into this input.



# Amplifier/Speaker (CONT.)

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## BACK PANEL

### 1. MODEL NUMBER

The Bravo is available with several different microphone options. The model number determines which microphone options you have ordered.

HH=Handheld Held Wireless Microphone

HS=Headset Wireless Microphone

C=Collar Wireless Microphone

A / between two microphone options shows a model number with two wireless microphones.

### 2. SERIAL NUMBER

This shows the serial number of your Bravo system.

### 3. POWER LIGHT

This light will be glowing green when the power switch is on and there is adequate electrical power to the speaker/amplifier.

### 4. MASTER VOLUME

This is the master volume control for the entire unit. We recommend you start by having this volume at 5 (1/2 way- 12:00 position).

### 5. 5-BAND GRAPHIC EQUALIZER

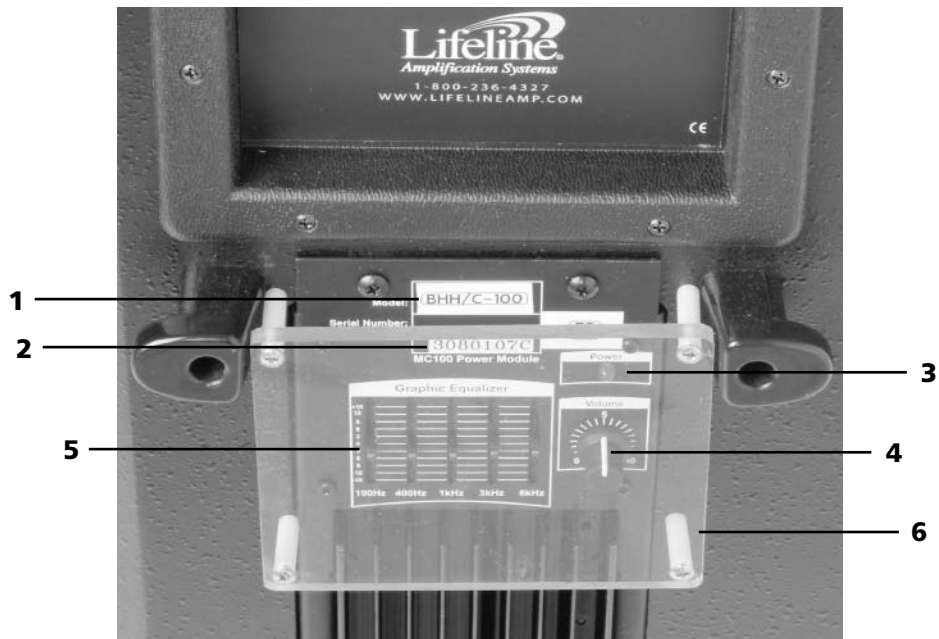
This provides accurate control over the tone of the system. As with any graphic equalizer, the left-most sliders effect the bass frequencies and the right most frequencies effect the high frequencies.

You can lower these individual frequency sliders if feedback occurs on appropriate low or high frequencies due to the acoustical environment. We recommend a starting setting of all sliders in the middle position. NOTE: Use equalizer moderately. Excessive boosts of frequencies will cause noise, potential feedback, and poor sound.

### 6. PLEXIGLASS COVER

This cover is intended for protection of the graphic equalizer and master volume control. This Plexiglas cover is also intended to discourage people from changing the graphic equalizer and volume control from the recommended settings. This Plexiglas cover may be removed by unscrewing the four screws (one in each corner). Be careful when unscrewing the screws as the white spacers will come off the Bravo as well.

If you have questions at any time about your A+ Amplification System, please call us toll-free at:  
1-800-236-4327



**BOTTOM SECTION**

**1. FUSE HOLDER**

Replace fuse only with the same type of fuse as included with the Bravo.

**2. AC POWER CABLE**

**3. LINE OUTPUT**

This is a standard line output and will typically be used when using the Bravo in conjunction with a personal listening device. To connect this use a shielded cable and plug between the line output of the Bravo into the line input of the personal listening device (call Lifeline Amplification Systems if a custom cable is needed).

**4. GROUND LIFT SWITCH**

This switch should be in the “ground” position (to the left) as a standard setting. If you experience substantial buzzing in the system change this to lift (to the right).

**5. EXTERNAL SPEAKER**

This 1/4" external speaker jack is used when connecting an external non-powered 8 ohm speaker to the Bravo. **DO NOT PLUG A POWERED SPEAKER INTO THIS JACK!** Lifeline Amplification Systems sells an extension speaker for the Bravo (model number BEXTS-1). See price list for pricing and ordering information. Volume for the second speaker will be the same volume as the Bravo main speaker. When using extension speaker, the volume and tone adjustment made from the Bravo main speaker will be automatically made on the extension speaker.

**6. POWER SWITCH**

When switched on, the power light underneath the Plexiglas panel will be green as long as adequate power is supplied to the unit.

**7. HEAT SINK**

This area dissipates heat created by the amplifier circuit. Do not operate unit directly against a wall. Always allow adequate airflow near the heat sink.

**8. HANDLE**

This handle has been provided for easy carrying up steps, into a vehicle, etc. We strongly recommend you pull the retractable handle down when carrying the Bravo.

**9. CORD-WRAP FEET**

These four heavy duty polycarbonate feet provide extra protection for the Bravo while offering convenient means of securing the power cord when not in use.

**10. EXTENDABLE HANDLE**

This sturdy aluminum handle was designed to pull the weight of the Bravo safely without damage. Do not overload the handle with other heavy pieces of gear such as briefcases or extra speakers. Lower the handle when not in use to avoid accidental damage.

**11. WHEELS**

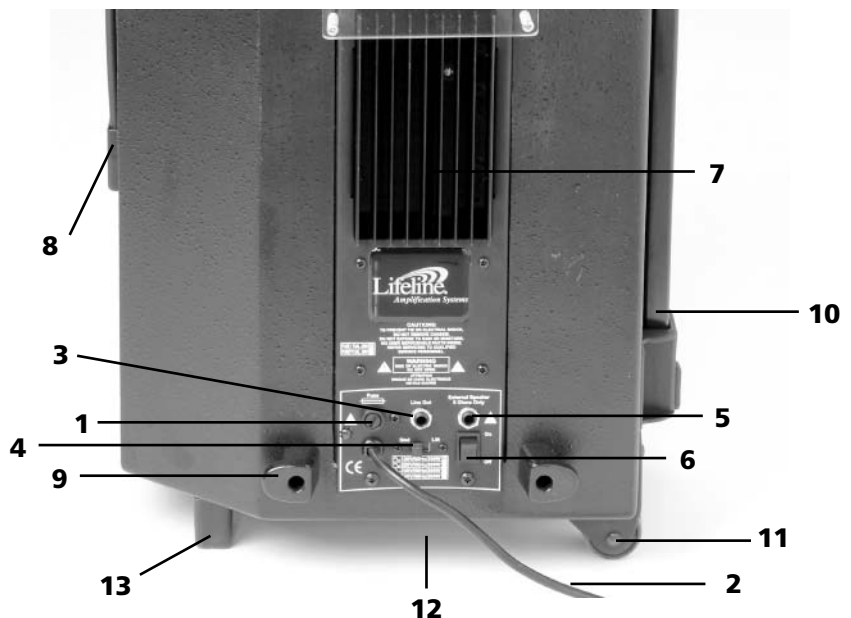
With normal use and standard precautions, these sturdy roller-bearing casters will give years of trouble-free operation. Keep castors free from excessive dirt and standing water. Lift the Bravo over major obstacles and do not drop the Bravo on its castors.

**12. POLE MOUNT RECEPTACLE**

The Bravo may be mounted on any 35mm/1.5" speaker mounting pole or tri-pod stand. Lifeline Amplification Systems offers a speaker stand (model number BSS-1)- See price list for current pricing.

**13. HANDLE/FOOT**

This bottom-mounted device acts as the foot, and doubles as a carrying handle. Its mounting position makes it convenient to use when lifting the Bravo into a vehicle or onto a speaker stand.



# Operation Of The Bravo

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## TAKE AN INVENTORY OF ALL PIECES SUPPLIED FOR THE BRAVO

- Powered Speaker/amplifier
- Wireless transmitter with appropriate mic
- BPT-2 (belt pouch for body pack units only)
- LB-1 Rechargeable battery(s)
- LC-3 Battery Charger(s)
- WH-1 Charging Cable (only for wireless body pack systems)
- Wireless Carrying Case

## REFERENCE THE ENCLOSED PACKING SLIP OF A NEW SYSTEM FOR COMPLETE INVENTORY LIST.

1. Plug the Bravo powered speaker/amplifier into electricity. Place the Bravo speaker in a location where sound can completely cover the room without being blocked by walls or external items. Place the Bravo so that the top of the unit is at eye-level or slightly higher. BE CAREFUL with what you are setting the Bravo on (table, bleachers, etc.). Lifeline Amplification Systems sells a speaker stand as an optional accessory (model number BSS-1). See price list for details.
2. Check to make sure the master volume on the back of the Bravo is set at 5 and the individual volumes on the top of the Bravo are set at 5 (all these settings 1/2 way-12 o'clock position). This is a good starting position.
3. Check to make sure the graphic equalizer sliders (behind the Plexiglas shield in the back of the unit) are all set in the middle position. This is recommended starting point.
4. Turn the power on the amplifier speaker ON.
5. If you are using a handheld wireless unscrew the bottom capsule and make sure the battery is properly connected to the battery terminals. (If you are using a body pack headset microphone skip to number 8). If this is the first time you are using the system you might need to re-charge the battery (see charging diagram on page 9)

6. If you are using a handheld microphone turn the power switch on the microphone to the PWR position (a green light should appear below the switch).

7. Next, turn the mute switch to the ON position. You should now be broadcasting. Adjust the volume on the individual input on the Bravo speaker/amplifier for the desired volume. See troubleshooting section if feedback occurs.

8. Skip to "recommended settings" at the bottom of this page if you are using a handheld microphone. Attach the microphone cable to the body pack.

9. Connect the microphone to the microphone cable.

10. Attach the headset clip to your clothing if you are using a headset mic. This clip is intended to lessen the strain on the cable.

11. Place the transmitter on your belt, in your pocket etc.

12. Place the headset or collar mic in the appropriate position (see pictures on page 9 for recommended placement of microphone). If the headset initially puts too much pressure on your head feel free to bend the headset to obtain a comfortable fit.

13. Turn the Power switch to the ON position (all the way to the right) on the transmitter. You should now be broadcasting. Adjust the volume on the individual input on the Bravo speaker/amplifier for your needed volume. If feedback occurs see the troubleshooting section.

## RECOMMENED SETTINGS

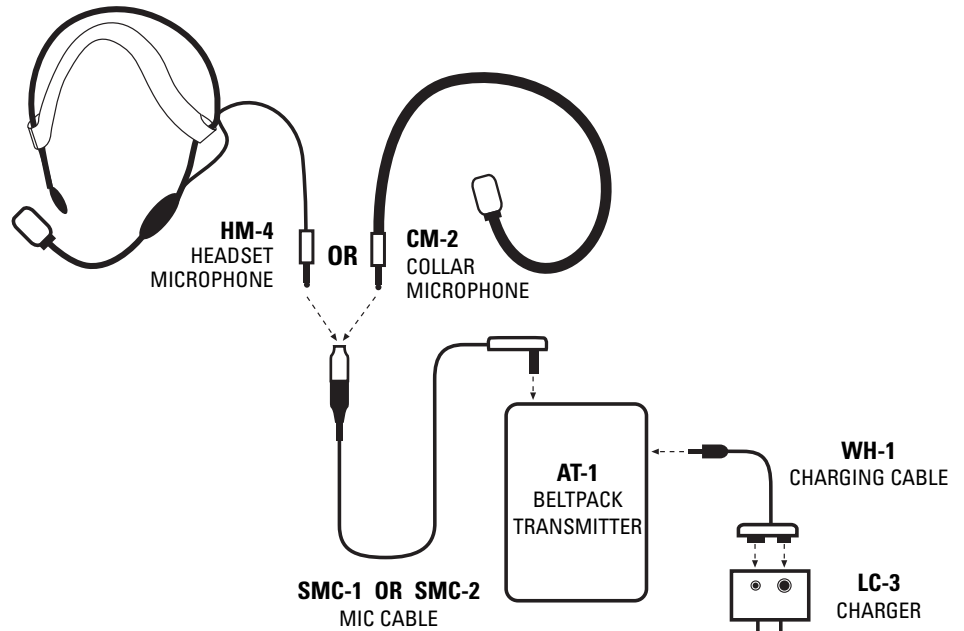
Following are recommended starting positions for Bravo settings.

- Master Volume Control (back of Bravo):  
5 (middle position)
- Individual Volume Controls (Top of Bravo):  
5 (middle position)
- Graphic Equalizer (back of Bravo):  
Middle position

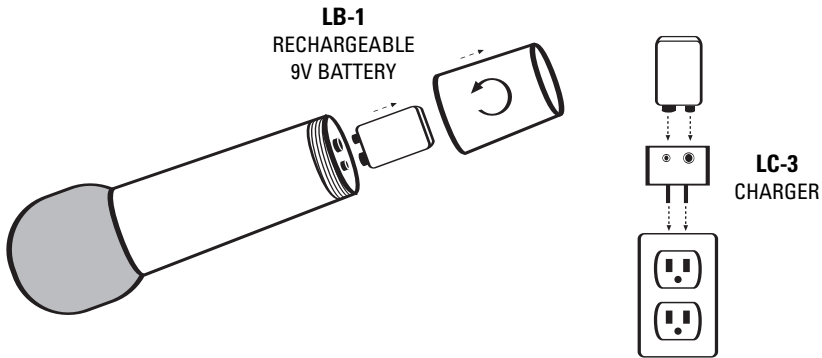
# Transmitter Charging

THE BRAVO CAN BE ORDERED WITH ONE OR TWO WIRELESS MICROPHONES. YOU WILL RECEIVE THE SAME NUMBER OF RECHARGEABLE BATTERIES AND CHARGERS AS THE NUMBER OF WIRELESS SYSTEMS YOU ORDERED.

## CHARGING BODY PACK WIRELESS (HEADSET OR HANDHELD)



## CHARGING THE HANDHELD MICROPHONE



## MICROPHONE PLACEMENT



Collar Mic



Headset Mic

# Troubleshooting Guide

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## HANDHELD WIRELESS SYSTEM IS NOT WORKING

### CHECK THE TRANSMITTER

1. Is the OFF/PWR in the PWR position? (to the right)
2. Is the ON/MUTE switch in the ON position?
3. Is the light below the OFF/PWR switch brightly lit? If it's not check and make sure the battery is properly inserted in the battery compartment. Try a new battery.
4. Is the low battery light lit? If this light is on then charge the battery.
5. Is the Bravo amplifier/speaker plugged into electricity?
6. Is the Bravo amplifier/speaker power switch on?
7. Is the power light brightly lit? If the power light is not on then change electrical outlets.
8. Is the master volume control on the back of the unit on 5?
9. Are the individual volume controls on the top of the Bravo on 5?
10. Are the graphic equalizer sliders in the middle position?

## BODY PACK HEADSET OR COLLAR SYSTEM NOT WORKING

1. Is the OFF/ST.BY/ON switch on the top of the body pack turned on?
2. Is the light on the top of the transmitter green? If it's red then the switch is in the standby mode and needs to be moved to the right. If there is no light then the unit is off or the battery is dead.
3. Is the Bravo amplifier/speaker plugged into electricity?
4. Is the Bravo amplifier/speaker power switch on?
5. Is the power light brightly lit? If the power light is not on then change electrical outlets.
6. Is the master volume control on the back of the unit on 5?
7. Are the individual volume controls on the top of the Bravo on 5?
8. Are the graphic equalizer sliders in the middle position?

## IF YOUR SYSTEM EXPERIENCES FEEDBACK

1. Change the speaker location if possible. Lowering or raising the speaker and/or turning it slightly side to side can help eliminate feedback.
2. Turn down the master volume on the Bravo amp/speaker. If more volume is needed then turn up the individual input volume. If feedback still occurs reverse this process (turn down the individual input volume and turn up the master volume).
3. Lower the graphic equalizer sliders in the frequency areas where the feedback is occurring:  
Example: If the feedback sounds like a lower frequency then slightly turn down the lower slider(s).  
Only change sliders a small amount per change.
4. If the above three items do not work then try lowering the gain settings on the transmitter (s) slightly. See transmitter section for gain location of handheld and body pack transmitters. Turning the gain setting counter clockwise lowers the gain. Only make small changes when doing this (no more than 2 numbers on a clock). You will need to adjust the speaker volume after this adjustment has been done.
5. If feedback still occurs after trying the above items then call Lifeline Amplification Systems at 1-800-236-4327. Be sure to readjust all the settings back to the original positions after the changes you made did not help.

## IF YOUR BATTERY IS NOT LASTING 6 HOURS DURING THE DAY

1. How old is the battery? Rechargeable batteries will last 1-2 years. The back of the battery will have a date code. Example: 3/0 (means the battery was purchased in March of 2000). If the battery is more than 2 years old call Lifeline Amplification Systems to order another LB-1 battery (see price list for cost and ordering instructions).
2. Body Pack Transmitter (headset or collar mic): Is the charger plugged into electricity when being charged? Is there a good connection between the WH-1 charging cable and the charger? Try taking the battery out of the battery compartment and attaching it directly to the charger overnight. If this works then the WH-1 cable is defective.
3. Handheld Microphone: Make sure battery is making a good connection with the battery tabs in the transmitter. If the tabs seem loose try tightening the larger tab on the battery and/or the microphone.

## CALL LIFELINE AMPLIFICATION SYSTEMS IF THE FOLLOWING OCCURS

- Your system is picking up something other than what is supposed to be broadcast.
- Your system is full of static when you turn the transmitter off.

# Important Things To Remember

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If you have questions at any time about your A+ Amplification System, please call us toll-free at:

1-800-236-4327

## STARTING YOUR DAY WITH A HEADSET OR COLLAR SYSTEM

1. If the Bravo amplifier/speaker is not already plugged into electricity do so first.
2. Turn the Bravo amplifier/speaker power switch ON.
3. Unplug the WH-1 charger cable from the transmitter.
4. Properly position the microphone as shown in the drawing in page 9.
5. Turn the power switch on the transmitter ON. You should now be broadcasting.
6. Place the transmitter in your pocket or on a belt being careful not to unplug the microphone cable from the transmitter.

## STARTING YOUR DAY WITH A HANDHELD SYSTEM

1. If the Bravo amplifier/speaker is not already plugged into electricity do so first.
  2. Turn the Bravo amplifier/speaker power switch ON.
  3. Take the 9 volt rechargeable battery off the charger being careful to pull the battery up and not towards you.
  4. Install the 9 volt battery in the battery compartment of the transmitter.
  5. Turn the Off/PWR switch to PWR.
  6. Turn the On/Mute switch to ON. You should now be broadcasting.
- \* If you are using both a headset and handheld system you will need to perform steps 1-6 on the headset system and 3-6 on the handheld system.*

## COMPLETING YOUR DAY WITH A HEADSET OR COLLAR SYSTEM

1. Turn your transmitter off.
2. Carefully take the microphone off your head or neck.
3. Plug the WH-1 charging cable into the transmitter (the opposite end of the WH-1 charging cable should already be attached to the charger and the charger plugged into the wall).
4. Turn the Bravo amplifier/speaker off.

## COMPLETING YOUR DAY WITH A HANDHELD SYSTEM

1. Turn the OFF/PWR switch to the OFF position.
  2. Unscrew the battery compartment cover.
  3. Take the battery out of the transmitter and place the battery on the LC-3 charger (making sure the charger is plugged into the wall).
  4. Screw the battery compartment cover back on being careful not to cross thread the cover.
  5. Turn the Bravo amplifier/speaker off.
- \* If you are using both the handheld and headset system you will need to perform steps 1-4 on the headset portion and steps 1-4 on the handheld portion.*

## OTHER THINGS TO REMEMBER

- AVOID WRAPPING THE MICROPHONE CABLE (ON THE BELT PACK HEADSET AND COLLAR SYSTEMS) AROUND THE TRANSMITTER WHEN PUTTING IT AWAY. Over time, this could break the microphone wire.
- Your Bravo system uses a single 9.6 volt nickel metal hydride rechargeable battery in the transmitters. Avoid using any other type of batteries in the system or it will not perform properly. Average battery life is 6 hours.
- Rechargeable batteries can be recharged over the weekend but try not to charge them more than 3 days.
- Use your normal speaking voice and let the system do the rest.
- If you have any questions concerning the system please call us toll free at 1-800-236-4237.
- For a complete list of options and accessories reference the latest price list. You can download the price list at [www.lifelineamp.com](http://www.lifelineamp.com) or call 1-800-236-4327 and we would be happy to send you one.