

# Champion SERIES



# User Guide

# Transmitter Preparation

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## 1. "LOCKED" FRONT DOOR

If you choose to adjust the manufacturer presets, simply use a small screwdriver (provided) or a paper clip to unlock the door locks on both sides of the unit. To unlock the door, rotate the lock counter clockwise. You may now open the door by gripping the two tabs with your thumb and index finger.

## 2. RN SWITCH

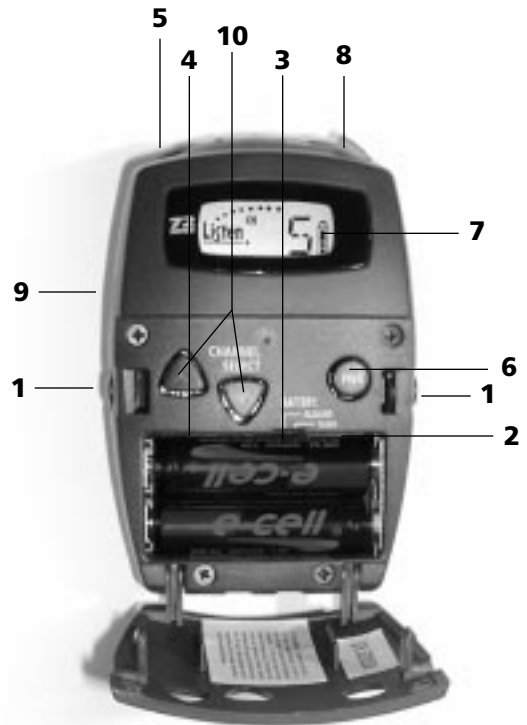
The RN or Reduced Noise switch will reduce the amount of background noise. The RN switch must be in the ON position in both the Transmitter and Receiver for the Reduced Noise circuit to work.

*Turn the RN SELECTOR SWITCH to the OFF position when matching the frequency used by another manufacturer. Always leave the RN switch in the ON position when using Lifeline Amplification Systems equipment. This will ensure the maximum signal/noise ratio of 80db. (Both Transmitter & Receiver must be in the ON position to use the RN feature.)*

## 3. BATTERY SELECT SWITCH

NiMH batteries have been installed in the Transmitter unit. The BATTERY SELECT switch should already be in the NiMH position (to the right.) This battery switch will allow the unit to operate with NiMH (high quality rechargeable batteries) when it's in the NiMH position.

**WARNING:** *Should you choose to use NON-Nickel Metal Hydride batteries, you must move the BATTERY SELECT switch to the Alkaline position. If the BATTERY SELECT switch is in the Alkaline position, the internal battery charger will not function. Charging non-Nickel Metal Hydride batteries may result in physical harm, destruction of property and/or fire and will void the manufacturer's warranty.*



## TRANSMITTER DISPLAY

When illuminated, the microphone is active. If this display does not appear, the microphone is muted.

Indicates the currently tuned channel.

Battery level indicator. The indicator flashes, along with the red LED on top of the unit to alert you when the battery is low.



Indicates the unit is in PROGRAM mode. To enter PROGRAM mode, press and hold simultaneously the UP and DOWN keys until the PGM icon appears in the display. To exit PROGRAM mode, don't press a key for about 4 seconds; it will exit automatically.

When in the PROGRAM mode, L/O indicates whether a particular channel is locked out.

When the padlock icon appears, the channel is locked. Press and hold either the UP or DOWN button for 3+ seconds to lock or unlock.

If you have questions at any time about your Champion Personal Listening Device, please call us toll-free: 1-800-236-4327

**4. MIC SENSITIVITY**

The factory setting for the Mic Sensitivity switch is MED. You may change this to HI or LO depending on the user’s voice strength or the type of microphone that you choose. You also may need to adjust the Mic Sensitivity when using another manufacturer’s microphone. Each mic sensitivity adjustment is a change of 6DB in gain.

**5. MICROPHONE CABLE INPUT JACK**

Connect the microphone cable to the microphone jack on the top of the Transmitter. This unit uses the microphone cable as an antenna. The mic jack may also be used for Line Level inputs (such as Television, Computer sound card or Projector.)

*Example: For Television, Computer or Projector audio to be sent through the Transmitter, you must use the special line input cable. Part No. for ordering is IC-6 Input Cable. (See the accessories list for ordering information)*

**6. POWER BUTTON**

Turn the Power On by pressing the Power Button. Turn off by pressing the Power Button again. The Battery Gauge found on the graphic display will show battery life remaining.

**7. BATTERY GAUGE**

Your Transmitter will provide 10 hours of battery life in normal operating mode. To monitor the current battery strength, refer to the Battery Gauge on the right side of the graphic display. The battery gauge will flash and the red LED light on top of the transmitter will flash when the battery has less than

5% charge life left.

**8. TALK/MUTE SWITCH**

Rotate switch to TALK to turn on the microphone. When wanting to mute the microphone, rotate the switch to MUTE. When muted, the Red LED light on top of the Transmitter will flash and the signal strength meter on the graphic display will not show any dots (because no signal is being sent.) When the unit is muted, the microphone is turned “off,” but the unit is still powered and drawing from the battery.

**9. CHARGE JACK**

This charging jack is used to charge the battery without having to take the battery out of the Transmitter. The charger that is provided will charge the Transmitter and Receiver at the same time.



**BATTERY GAUGE**



All three segments showing: The batteries are at greater than 50% capacity.



Two segments showing: You have less than half of your battery life left.



One segment showing: Your batteries are low. When this segment begins flashing along with the LED on top of the unit, you should immediately change your batteries or recharge them (if using NiMH batteries)

**10. CHANNEL SELECTOR SWITCHES**

If your Transmitter is in the locked position, the LOCK symbol will appear on the graphic display. To unlock, simply press and hold either the UP or DOWN selector button for 3 seconds.

Select the channel to transmit on by pressing and releasing the channel UP or DOWN button. When you've found the channel you would like, press and hold either the UP or DOWN button for 3 seconds to LOCK the Transmitter. The LOCK symbol on the LCD graphic display will turn on and the channel cannot be changed.

- At 72MHz, the Transmitter operates on 17 wide band channels and 40 narrow band channels (letters = wide band and numbers = narrow band channels.)
- At 216 MHz, the Transmitter operates on 19 wide band channels and 38 narrow band channels (channels beginning with "2" = wide band, and channels beginning with "1" or "3" = narrow band channels.)

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Please refer to the Frequency Compatibility Charts on page 9 for specific frequencies and compatibility with other manufacturers.

*Note: Always try to use wide band frequencies first. Wide band channels are usually cleaner, with less chance of interference. The best way is to select a channel by trial and error. Try a channel, if it has low interference and reliable performance, stick to that channel.*

If using more than one unit in the same building (different rooms,) select different channels for each unit, with the highest amount of separation possible.

# Transmitter Operation

## CLOSE ACCESS DOOR

If you choose to lock the door, rotate the locks on the right side clockwise, and on the left side turn counter clockwise. This can be done with a small screwdriver or paper clip.

## BUILT IN CHARGER

Turn the transmitter off before charging. When the Transmitter is plugged into the provided Charger and the BATTERY SWITCH is in the NiMH position, the NiMH batteries will be charging within the Transmitter. The battery gauge will be shown and the light on the top of the transmitter will flash when the battery is charging. When the light flashes quickly and the battery gauge is full, the unit is fully charged. Once the batteries are charged, the internal battery charger will automatically turn off. This prevents overcharging of batteries, automates the process of charging, and makes it so you don't have to remember to unplug the charger.

***Note:** DO NOT attempt to charge alkaline or any other type of non-NiMH batteries. Only charge Nickel Metal Hydride (NiMH) batteries within the unit. To ensure proper operation, we recommend you use NiMH batteries supplied by Lifeline Amplification Systems.*

Your Champion Series Charger will safely operate when plugged into the transmitter and/or receiver even when the batteries are completely drained (just in case you forgot to plug it in the night before.)

# Transmitter Programming

## PROGRAM LOCK OUT

The T-101A Champion series transmitter can be programmed to transmit on a limited number of channels. The PROGRAM LOCK OUT feature is ideal for applications where users only want to scroll through a limited number of channels. The program lock out feature is available only on the T-101A Transmitter (not on the receiver.)

- 1. ENTER PROGRAM MODE:** To enter the Program Mode, press the UP and DOWN keys simultaneously until the PGM symbol is displayed on the LCD graphic display.
- 2. LOCKED OR UNLOCKED:** Use the UP and DOWN channel select keys to scroll through all 57 channels. (The Transmitter will leave the Program Mode if no buttons are pushed within 5 seconds. If this happens, start at the beginning and enter the Program Mode once again.) The L/O symbol will be displayed when a particular channel is locked out. "LOCKED OUT" means the channel is not available to the user after the programmer exits PROGRAM mode. The unit will remember which channels are LOCKED OUT even when turning power ON and OFF. To lock a channel, press the POWER button.
- 3. CHANGE THE STATUS OF A CHANNEL (LOCKED OR UNLOCKED):** Enter PROGRAM mode as stated on number 1 above, reverse procedure for number 2 above.

# Receiver Preparation

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## 1. "LOCKED" FRONT DOOR

If you choose to adjust the manufacturer presets, simply use a small screwdriver (provided) or a paper clip to unlock the door locks on both sides of the unit. To unlock the door, rotate the lock turn counter clockwise. You may now open the door by gripping the two tabs with your thumb and index finger.

## 2. BATTERY SELECT SWITCH

NiMH batteries have been installed in the Receiver unit. The BATTERY SELECT switch should already be in the NiMH position (to the right.) This BATTERY SWITCH will allow the unit to operate with NiMH batteries (high quality rechargeable batteries) while in the NiMH position.

**WARNING:** Should you choose to use NON-Nickel Metal Hydride batteries, you must move the BATTERY SELECT switch to the Alkaline position. If the BATTERY SELECT switch is in the Alkaline position, the internal battery charger will not function. (The Transmitter unit will attempt to charge the batteries if left in the NiMH position.) Charging non-Nickel Metal Hydride batteries may result in physical harm, destruction of property and/or fire and will void the manufacturer's warranty.

## 3. BATTERY GAUGE

Your Receiver will provide 10 hours of battery life in normal operating mode. To monitor the current battery strength, refer to the Battery Gauge on the right side of the graphic display. The battery gauge will flash and the red LED light on top of the Receiver will flash when the battery has less than 5% charge life left.



## 4. RN SWITCH

The RN or Reduced Noise switch will reduce the amount of background noise. The RN switch must be in the ON position in both the Transmitter and Receiver for the Reduced Noise circuit to work.

*Turn the RN SELECTOR SWITCH to the OFF position when matching the frequency used by another manufacturer. Always leave the RN switch in the ON position when using Lifeline Amplification Systems equipment. This will ensure the maximum signal/noise ratio of 80db. (Both Transmitter & Receiver must be in the ON position to use the RN feature.)*

## BATTERY GAUGE



All three segments showing: The batteries are at greater than 50% capacity.



Two segments showing: You have less than half or your battery life left.



One segment showing: Your batteries are low. When this segment begins flashing along with the LED on top of the unit, you should immediately change your batteries or recharge them (if using NiMH batteries)

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**RECEIVER DISPLAY**

Small Dots indicate the relative RF signal strength. When there is no signal the unit is squelched.

Letters and numbers indicate the channel the unit is tuned to.



In OPERATING mode, this icon indicates the channel is locked (to lock/unlock, press the LOCK button until the LOCK symbol on the LCD display is displayed/not displayed.)

Battery indicator. Flashes slowly to alert you when battery is low.

**5. POWER SWITCH/VOLUME SELECTOR**

Rotate switch to the left to turn power on. Rotating left will increase volume, rotating right will decrease volume.

**6. HEADSET JACK**

Plug your choice of listening device into the mini jack on top of the unit. This unit is designed to work with either mono or stereo connectors. You may use a headset, earbuds, hearing aid boot or teleloop with this Receiver.

**7. CHARGE JACK**

This charging jack is used to charge the battery without having to take the battery out of the Receiver. The charger that is provided will charge the Receiver.



# Receiver Operation

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**1. TURN UNIT ON**

Plug input device (headset) into jack on the top of the receiver. Turn unit on by rotating the volume knob. The Champion Receiver uses the cable of the headset as a receiving antenna.

After audio is present from the Transmitter, slowly rotate the volume knob to adjust the volume while listening in the headset (notice the reference marks on the volume knob.)

**2. SELECT CHANNEL**

Select the channel to receive on by pressing and releasing the channel UP or DOWN button (which is located behind the battery door.) When you've found the channel you would like, press the LOCK button for 3 seconds to LOCK the Receiver. The LOCK symbol on the LCD graphic display will turn on and the channel will be in the lock mode. To unlock, hold down the LOCK button for 3 seconds.

- At 72MHz, the Receiver operates on 17 wide band channels and 40 narrow band channels (letters = wide band and numbers = narrow band channels.)
- At 216 MHz, the Receiver operates on 19 wide band channels and 38 narrow band channels (channels beginning with "2" = wide band, and channels beginning with "1" or "3" = narrow band channels.)

Please refer to the Frequency Compatibility Charts for specific frequencies and compatibility with other manufacturers.

*Note: Always try to use wide band frequencies first. Wide band channels are usually cleaner, with less chance of interference.*

(continued)

If using more than one unit in the same building (different rooms,) select different channels for each unit, with the highest amount of separation possible.

### 3. CLOSE ACCESS DOOR

If you choose, lock the door by rotating the locks on the right side – clockwise, and on the left side counter clockwise. This can be done with a small screwdriver (provided) or paperclip.

### 4. TEST AUDIO

If a Transmitter is broadcasting on a channel that you have chosen on your Receiver, you will be able to hear the audio. If the signal is too weak, the audio could fade in and out. Also refer to your signal strength meter on the graphic display.

### 5. FIND AUDIO TRANSMISSION

You may also find your frequency needed on the Receiver by pressing and releasing the LOCK button quickly. When you do this, the Receiver looks for the next channel that is active. Sometimes, the unit will mistake interference for a real broadcast signal.

If you get interference, simply press and release the LOCK button quickly again.

The LOCK button will also likely stop on adjacent narrow band channels, or the wide band channel associated with the narrow band you are looking for. Simply continue to press the LOCK button until you reach the clearest operating channel (for wide band only.)

### 6. BUILT IN CHARGER

When the Receiver is plugged into the provided Charger, the NiMH batteries will be charging within the Receiver. Once the batteries are charged, the internal battery charger will automatically turn off. This prevents overcharging of batteries, automates the process of charging, and makes it so you don't have to remember to unplug the charger.

*Note: DO NOT attempt to charge alkaline or any other type of non-NiMH batteries. Only charge Nickel Metal Hydride (NiMH) batteries within the unit. To ensure proper operation, we recommend you use NiMH batteries supplied by Lifeline Amplification Systems.*

Your Champion Series Charger will safely operate the receiver even when the batteries are completely drained (just in case you forgot to plug it in the night before.) Simply plug the CDC-2 Charger to the CHARGE/POWER connector (located on the side of the receiver.) Batteries need not be installed. However, a NiMH battery will recharge at that time if installed while the unit is being used. Make sure the BATTERY SELECT switch is set to NiMH.

If you have questions at any time about your Champion Personal Listening Device, please call us toll-free:

**1-800-236-4327**

# Frequency Compatibility Charts

## FREQUENCY COMPATIBILITY 72MHZ

Frequency	Lifeline Champion	Phonak	Phonic Ear	Comtek	Telex	Williams
72.0250	1	A1	1	1	1	11
72.0750	2	A2	2	2	2	12
72.1000	A	A	A	A	A	A
72.1250	3	A3	3	3	3	14
72.1750	4	A4	4	4	4	15
72.2000	K	K			B	
72.2250	5	K5	5	5	5	16
72.2750	6	K6	6	6	6	27
72.3000	B	B	B	B	C	B
72.3250	7	B7	7	7	7	19
72.3750	8	B8	8	8	8	20
72.4000	N	N			D	
72.4250	9	N9	9	9	9	21
72.4750	10	N0	10	10	10	22
72.5000	C	C	C	C	E	C
72.5250	11	C1	11	11	11	24
72.5750	12	C2	12	12	12	25
72.6000	O	O			F	
72.6250	13	O2	13	13	13	26
72.6750	14	O4	14	14	14	27
72.7000	D	D	G	D	G	D
72.7250	15	D5	15	15	15	29
72.7750	16	D6	16	16		30
72.8000	P	P			H	
72.8250	17	P7	17	17	17	31
72.8750	18	P8	18	18	18	32
72.9000	E	E	E	I	I	E
72.9250	19	E9	19	19	19	34
72.9750	20	E0	20	20	20	35
74.6250	33	E3	33	33	36	36
74.6750	34	E4	34	34	37	37
74.7000	I	I	I	I	O	L
74.7250	35	I5	35	35	35	39
74.7750	36	I6	36	36	36	40
75.2250	37	I7	37	37	37	41
75.2750	38	I8	38	38	38	42
75.3000	J	J	J	J	P	J
75.3250	39	J9	39	39	39	44
75.3750	40	J0	40	40	40	45
75.4000	R	R			Q	
75.4250	21	R1	21	21		46
75.4750	22	R2	22	22	22	47
75.5000	F	F	F	F	J	F
75.5250	23	F3	23	23		49
75.5750	24	F4	24	24		50
75.6000	S	S			K	
75.6250	25	S5	25	25		51
75.6750	26	S6	26	26		52
75.7000	G	G	G	G	L	G
75.7250	27	G7	27	27		54
75.7750	28	G8	28	28		55
75.8000	T	T			M	
75.8250	29	T9	29	29		56
75.8750	30	T0	30	30		57
75.9000	H	H			N	H
75.9250	31	H1	31	31		59
75.9750	32	H2	32	32		60

## FREQUENCY COMPATIBILITY 216MHZ

Frequency	Lifeline Champion	Phonak	Phonic Ear	Comtek	Telex	Williams	AVR	Light Speed
216.0125	1A	1						
216.0250	2A	41	41				C01	N01
216.0375	3A	2						
216.0625	1B	21						
216.0750	2B	42	42					
216.0875	3B	4						
216.1125	1C	5					C05	
216.1250	2C	43	43			A		
216.1375	3C	22						
216.1625	1D	23						
216.1750	2D	44	44			B		
216.1875	3D	8						
216.2125	1E	9					C09	N09
216.2250	2E	45	45			C		
216.2375	3E	24						
216.2625	1F	25						
216.2750	2F	46	46			D		
216.2875	3F	12					C12	N12
216.3125	1G	13						
216.3250	2G	47	47			E		
216.3375	3G	26						
216.3625	1H	27						
216.3750	2H	48	48			F		
216.3875	3H	16					C16	
216.4125	1J	17						
216.4250	2J	49	49			G		
216.4375	3J	18					C18	N18
216.5125	1K	61					C21	
216.5250	2K	29	51			H		
216.5375	3K	62						
216.5625	1L	28						
216.5750	2L	52	52			I		
216.5875	3L	64					C24	N64
216.6125	1M	65					C25	
216.6250	2M	53	53			J		
216.6375	3M	81						
216.6625	1N	82						
216.6750	2N	54	54			K		
216.6875	3N	68						
216.7125	1P	69					C29	
216.7250	2P	55	55			L		
216.7375	3P	83						
216.7625	1R	84						
216.7750	2R	56	56					
216.7875	3R	72					C32	N72
216.8125	1S	73					C33	
216.8250	2S	57	57					
216.8375	3S	76						
216.8625	1T	85						
216.8750	2T	58	58					
216.8875	3T	86						
216.9125	1U	87					C37	N77
216.9250	2U	59	59					
216.9375	3U	88						
216.9625	1V	79					C39	
216.9750	2V	60	60					
216.9875	3V	80					C40	N80

# Transmitter Troubleshooting

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## NO POWER.

- Make sure the unit has either fully charged batteries or a CDC-2 Charger is connected to the unit.
- Press the ON button. If this does not work, try a different set of batteries.
- Make sure the batteries are installed properly.

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## NO AUDIO.

- Make sure the MUTE switch is in the TALK position.
- Make sure you have the microphone plugged in all the way in the top of the unit.
- Make sure you have signal strength dots in the display.

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## AUDIO IS DISTORTED.

- Make sure you're using a Lifeline Amplification Systems approved microphone.
- Lower the Mic Sensitivity Switch (see #4 on page 3) to see if this makes a difference.
- Is your battery low on power?

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## HUM IN THE AUDIO.

- The microphone may be too close to a transformer.
- You may also be picking up background noise.
- Try lowering the Mic Sensitivity Switch (see #4 on page 3) see if this makes a difference.

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## LOW MIC LEVEL.

- The microphone must be placed in close proximity to the person speaking. Change the Mic Sensitivity Switch to a higher setting to see if this makes a difference.
- Try using a collar or headset type of microphone.
- Try raising the Receiver volume.

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## TOO MUCH BACKGROUND NOISE.

- This is probably due to the fact that the microphone is not close enough to the person speaking and is picking up background noise.
- Try positioning the microphone closer or try using a microphone that is directional.
- You may also want to change the Mic Sensitivity Switch to a lower setting.

If you have questions at any time about your Champion Personal Listening Device, please call us toll-free:

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<b>INTERFERENCE.</b>	<ul style="list-style-type: none"> <li>• Try different frequencies until you find a clear channel.</li> </ul>
<b>SIGNAL, BUT STILL FUZZY.</b>	<ul style="list-style-type: none"> <li>• Check to make sure the Transmitter and Receiver are on exactly the same channel number/letter.</li> <li>• Make sure the Receiver Headset is completely plugged in.</li> </ul>
<b>WHEN USING ANOTHER BRAND OF RECEIVER – HOW DO I TELL WHICH CHANNEL TO USE?</b>	<ul style="list-style-type: none"> <li>• Refer to the Frequency Compatibility Chart. Either adjust the transmitter or the receiver to a common channel.</li> </ul>
<b>NON-SUFFICIENT RANGE.</b>	<ul style="list-style-type: none"> <li>• The Transmitter uses the microphone cable as an antenna and as such, the range will vary depending on the location of the receivers compared to the transmitter.</li> <li>• If you experience dropouts, please call Lifeline Amplification Systems.</li> </ul>
<b>BATTERIES NOT CHARGING.</b>	<ul style="list-style-type: none"> <li>• Make sure the battery switch is in the NiMH position.</li> <li>• Make sure you have a CDC-2 Charger connected to the unit.</li> <li>• Make sure you are using NiMH batteries provided by Lifeline Amplification Systems.</li> </ul>
<b>TRANSMITTER WILL NOT WORK USING COMPETITOR'S EQUIPMENT</b>	<ul style="list-style-type: none"> <li>• Make sure the RN switch is in the OFF position.</li> <li>• Make sure you are broadcasting on the same frequency (see frequency compatibility chart.)</li> </ul>

# Receiver Troubleshooting

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**NO POWER.**

- Make sure the unit has either fully charged batteries or a CDC-2 Charger is connected to the unit. (The battery gauge on the graphic display will show the battery strength.)
- Rotate the volume knob. If this does not work, try a different set of batteries.
- Make sure the batteries are installed properly.

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**NO AUDIO.**

- Make sure the MUTE switch on the transmitter is in the TALK position.
- Make sure you have the microphone plugged in all the way in the top of the unit.

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**AUDIO IS DISTORTED.**

- Make sure you're using a Lifeline Amplification Systems approved microphone.
- Lower the Mic Sensitivity Switch (see #4 page 3) to see if this makes a difference.
- Is your battery low on power?

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**INTERFERENCE.**

- Try different frequencies until you find a clear channel.

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**NO SIGNAL ON RECEIVER.**

- Check to make sure the receiver and the transmitter are on the same frequency.

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**SIGNAL, BUT STILL FUZZY.**

- Check to make sure the Transmitter and Receiver are on exactly the same channel number/letter.
- Make sure the Receiver Headset is completely plugged in.

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**NO SIGNAL ON THE RECEIVER**

- Refer to the Frequency Compatibility Chart. Either adjust the transmitter or the receiver so they are set to the same channel.

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**SIGNAL, BUT STILL FUZZY**

- The Transmitter uses the microphone cable as an antenna and as such, the range will vary depending on the location of the receivers compared to the transmitter.

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**BATTERIES NOT CHARGING**

- Check to make sure the battery switch is in the NiMH position.
- Be sure to use a Lifeline Amplification approved Charger.
- Use ONLY NiMH batteries provided by Lifeline Amplification. Never try to charge alkaline or NiCAD batteries!

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**TRANSMITTER WILL NOT WORK USING COMPETITOR'S EQUIPMENT**

- Make sure the RN switch is in the OFF position.
- Make sure you are broadcasting on the same frequency (see frequency compatibility chart.)

If you have questions at any time about your Champion Personal Listening Device, please call us toll-free:

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