

ALS-600

ASSISTIVE LISTENING SYSTEM



HAMILTON

OWNER'S MANUAL

Thank you for purchasing the **Hamilton ALS-600** Wireless RF Personal Listening System. The system can be installed quickly and easily. It provides quality listening assistance in compliance with the American's With Disabilities Act (ADA), which requires public facilities with audio systems to make listening assistance available to their audiences.

The ALS-600 provides outstanding quality. This system operates up to 300 feet line of sight. The system is configured with one wireless transmitter and 6 portable wireless backpack receivers. The system is configured with one channel in the 72-76 MHz band. Eight different frequencies can be factory ordered. The system is expandable to limitless receivers.

This Assistive Listening System is versatile. It can be operated indoors or out without affecting performance. Excellent for any application from small classrooms and boardrooms to auditoriums and sanctuaries. The ALS-600 offers great auditory reception without seating confinements.

The ALS-600 connects to the line out from a tape player or from an existing sound system and broadcasts the audio as an FM radio signal.

UNPACKING YOUR ASSISTIVE LISTENING SYSTEM The system includes the following items:

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- **1 ALS-600XTR Transmitter**
- **6 ALS-600BP Receivers**
- **1 12V DC 300MA Power Adapter**
- **6 ALS-600EB Earphones**
- **6 pair of Foam Ear Pads**
- **6 9 Volt Batteries**
- **1 1/4" to 1/4" Male Cable**
- **1 Instruction Manual**

SETTING UP THE TRANSMITTER

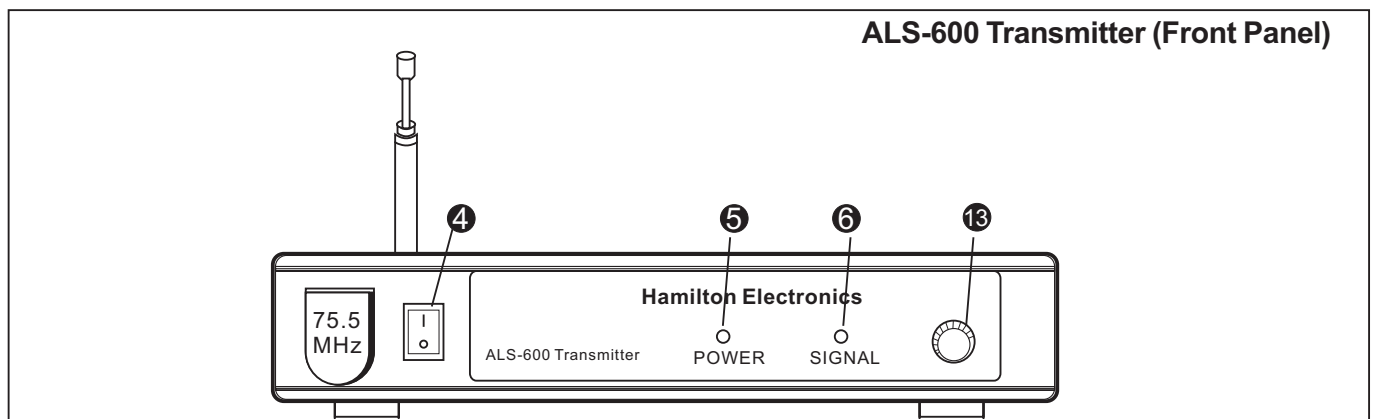
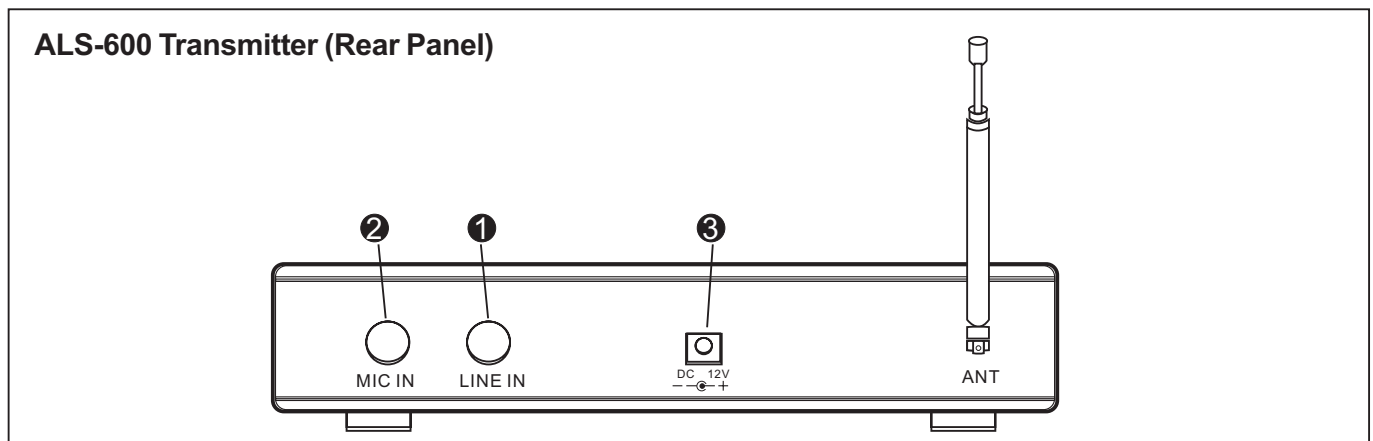
The 1/4" **LINE-IN** jack ❶ on the rear of the transmitter enables you to connect directly from an audio source such as a tape player.

MICROPHONE INPUT the 1/4" jack ❷ on the back panel is designed to accept either dynamic or electret microphones.

POWERING THE TRANSMITTER

- Connect the AC adapter provided into the 12V DC jack ❸ on the back panel of the transmitter. Plug the other end into an AC wall socket.
- Press power switch ❹ on, the power on LED ❺ will show power is getting to the system.

The transmitter's "signal" LED ❻ will illuminate to confirm that the transmitter is broadcasting.



ALS-600BP RECEIVER Features & Controls

- Volume control
- LED Power On/Battery indicator
- Power On/Off Switch
- Earphone Jack

Powering The Receiver

Install a 9V battery in battery compartment ⑪ on the back of the receiver. Observe polarity. To preserve battery life, always turn ALS-600BP receiver off when not in use. When the Power On/Battery LED ⑧ turns red or sound becomes weak or distorted, replace battery. The life expectancy from an alkaline battery is 17-20 hours.

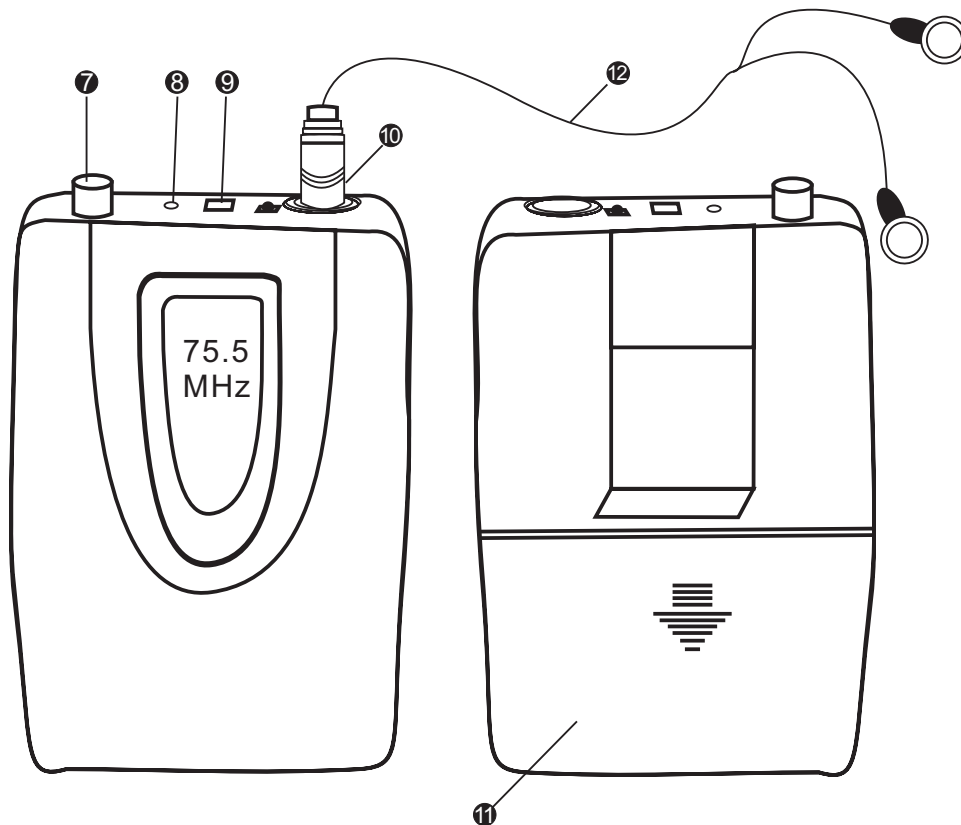
Operating the Receiver

Plug the included ALS-600EB earphones ⑫ into the earphone jack ⑩ on top of the receiver. While wearing your earphones, stand near the ALS-600 transmitter.

Turn on the receiver with the power on switch ⑨ and the LED indicator ⑧ will be visible.

Listen for your program source and adjust the volume control ⑦ for a comfortable listening level. If no sound is heard adjust the volume level ⑬ on the transmitter.

NOTE: You may wish to dispose of the foam ear pads after use or they can be re-used after being washed in mild detergent, rinsed and air-dried. The foam earpads can be ordered separately.



Confirming Correct Installation

** For the best performance, (and to minimize the possibility of interference from another source), we suggest you experiment to find the minimal height the antenna must be extended in order to perform well in your particular environment.*

Using More Than One ALS-600 System

You may operate up to three ALS-600 systems in the same location. For multiple system operation, please observe:

- If operating two ALS-600 transmitters in the same location, use Ch.AA and HH(or GG).
- If operating three ALS-600 transmitters in the same location, use Ch.AA ,EE and HH(or GG).
- Locate the transmitters ten feet or more away those wearing ALS-600BP receivers.

SPECIFICATIONS OVERALL SYSTEM PERFORMANCE

Frequency Response.....100 Hz-8kHz ± 3 dB
Signal to Noise Ratio.....41 dB
Total Harmonic Distortion..< 0.5%
RF Carrier Frequencies.....Eight channels between
72-76 MHz. Channel AA: 72.1, BB:
72.3, CC: 72.5, DD: 72.7, EE:
72.9, FF:75.5, GG: 75.7, HH: 75.9
Frequency Stability.....Better than .005%
Modulation.....FM ± 75 kHz max
Operating Range.....Up to 300 feet line-of-sight
ALS-600 TRANSMITTER
Mic Input.....Connector: 1/4" phone jack.
Impedance: unbalanced,
with 12V DC at 1 mA for
electret mic.
Line Input.....Connector: 1/4" phone jack
Impedance: 100 K,
unbalanced
Power Output.....15dBm
Controls.....Power on/off, volume adjust
Indicators.....Power On LED,
signal LED
Antenna.....Permanently mounted
telescoping
Power Requirement.12V DC, regulated @ 300
mA, adapter provided
Dimensions:1.81" H x 8.27" W x 5.51" D
Weight:0.75 lb.

ALS-600BP Receiver

Controls.....Separate volume &
on-off controls
Audio Output.....109 mW max into 16 ohms
Connectors.....3.5mm mini jack for
earphone output
Earphones.....Mini binaural earbuds
Antenna.....Integral with earphone cord
Indicators.....LED power on indicator
Sensitivity.....3 μ V for 12 dB
with squelch defeated.
Squelches at 10 μ V for
min. 50 dB S-N ratio
Mute Threshold.....5-8 μ V
Power Requirement....9V alkaline (included)
Battery Life.....17-20 hours w/alkaline
battery
Dimensions.....3.66" H x 2.44" W x 0.87" D
Weight2.89 oz. w/out battery

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