

INSTRUCTION MANUAL

Bluetooth® Behind-the-Head Earmuffs

- **BLUETOOTH® 5.2 CONNECTIVITY WITH MICROPHONE**
- **RECHARGEABLE LITHIUM BATTERY PROVIDES UP TO XX HOURS OF RUNTIME**
- **BEHIND-THE-HEAD EARMUFF DESIGN FOR VERSATILITY AND COMFORT**
- **NOISE REDUCTION RATING (NRR) OF 23DB**

GENERAL SPECIFICATIONS

Klein Tools Bluetooth® Behind-the-Head Earmuffs offer hearing protection of 23 dB NRR combined with an immersive audio experience via Bluetooth® technology. The unique and versatile headband allows for use with a variety of head protection.

- **Hearing Protection:** 23dB NRR (Noise Reduction Rating)
- **Bluetooth® Version:** 5.2
- **Bluetooth® Connection Range:** 65' (20 m) in open space
- **Frequency Response:** 20Hz - 20kHz
- **Support Profiles:** HA2DP v1.3.1, AVRCP v1.6, HFP v1.7.1, HSP v1.2.3
- **Battery Type:** Internal, Li-Ion, 3.7V / 750mAh (2.775Wh)
- **Runtime:** XX hours & 50% Bluetooth® Volume
- **Charging Requirements:** Maximum 5V DC, Minimum 0.7A
- **Charging Time:** Approx. 2 hours
- **Dimensions:** 6.4" x 7.0" x 4.3" (163 x 177 x 109 mm)
- **Weight:** 9.91 oz. (281 g)
- **Operating Temperature:** -4° to 140° F (-20° to 60° C)
- **Charging Temperature:** 32° to 113° F (0 to 45°C)
- **Storage Temperature:** -4° to 113° F (-20° to 45°C)
- **Relative Humidity:** <85% non-condensing
- **Drop Protection:** 6.6' (2 m)
- **Ingress Protection (IP) Rating:** IPTBD
- **Certifications:** FCC, IC, DOE/CEC, NRCAN, BQB
- **FCC ID:** 2A128-AESBH1
- **IC:** 21655-AESBH1

Specifications subject to change.

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⚠️ WARNINGS

Read, understand, and follow these instructions to ensure safe operation. Keep these instructions for future reference.

These hearing protectors help reduce exposure to hazardous noise and other loud sounds. Misuse or failure to wear hearing protection at all times that you are exposed to noise may result in hearing loss or injury.

- Inspect earmuffs before each use; damage to the earmuffs can reduce noise reduction performance.
- Improper fit of this device will reduce its effectiveness in attenuating noise. Consult the FITTING EARMUFFS section for best protection.
- **DO NOT** bend or reshape the headband as this will cause a reduced clamping force reducing the specified NRR (Noise Reduction Rating).
- Prolonged exposure to high volumes can cause hearing damage. It is the responsibility of the user to set the audio input level to the recommended volume. See table in FEATURE DETAILS section for noise exposure levels.
- **DO NOT** use this product in situations that require special attention: using noise reduction equipment and listening to audio can reduce awareness of the surrounding environment.

Failure to observe these warnings can result in risk of fire or electric shock.

- **DO NOT** use the product if it is damaged or modified. Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion, or injury.
- Risk of fire and burns. **DO NOT** open, crush, heat above specified maximum temperature or incinerate. Prolonged exposure to direct sunlight can result in elevated temperatures
- **DO NOT** immerse in water or other liquids
- Properly seal the charging port cover to achieve specified water & foreign object ingress protection. Keep seal free of dirt, oil, sand, or other material that interferes with proper sealing. Failure to do so can result in risk of fire or electric shock.
- **DO NOT** open the charging port cover if wet or in a wet environment. Thoroughly dry the unit and the seal around water-resistant cover completely before opening water resistant cover.
- **DO NOT** subject to impacts or drops greater than 6.6ft. (2m). Drops larger than this may not show signs of damage, but internal components may have been compromised. It is advisable to replace the unit if any such severe events occur.
- **DO NOT** attempt to repair the product or charging cable. There are no user-serviceable parts.

AESBH1



FEATURE DETAILS



1. Earmuff Cup (x2)
2. Cushion (x2)
3. Silicone Rubber
4. Headband
5. Headband Extension (x2)
6. Headband Pivot (x2)
7. Arm Bracket (x2)
8. Multi-Function Button (MFB)
9. Volume Up Button
10. Volume Down Button
11. Indicator LED
12. Bluetooth® Microphone
13. USB-C Charging Port
14. Silicone Port Cover
15. 20" (50cm) USB-C Charging Cable
16. Carrying Bag



NOISE EXPOSURE VALUES		
EXPOSURE TIME	EXPOSURE LEVEL PER NIOSH RECOMMENDED EXPOSURE LIMIT	EXPOSURE LEVEL PER OSHA PERMISSIBLE EXPOSURE LIMIT
8 hours	85 dBA	90 dBA
4 hours	88 dBA	95 dBA
2 hours	91 dBA	100 dBA
1 hour	94 dBA	105 dBA
30 minutes	97 dBA	110 dBA
15 minutes	100 dBA	115 dBA

See www.cdc.gov/niosh/topics/noise/reducenoiseexposure for more details.

SYMBOLS ON PRODUCT

-  **Warning or Caution**
-  **FCC: Conforms with particular Code of Federal Regulations**
-  **Risk of Electrical Shock**
-  **Read Instructions**
-  **Bluetooth® SIG Certified**

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NOISE REDUCTION RATING (NRR)

The NRR for the AESBH1 Bluetooth® Behind-the-Head Earmuffs is 23dB. It is tested and in accordance with ANSI S3.19-1974. To ensure adequate hearing protection, the earmuffs must be properly fitted according to the FITTING EARMUFFS section.

ANSI S3.19-1974 TESTING

Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA CLASS
Mean Attenuation	20.4	23.5	26.2	28.1	33.2	40.4	43.0	41.2	40.9	23	BL
Standard Deviation	3.3	3.1	3.1	2.3	3.7	3.3	3.0	3.0	3.0		

NOTE: The above table is based on a headband force of 3.2 lbs.

The level of noise entering a person's ear when the hearing protector is worn as directed, is closely approximated by the difference between the A-Weighted environmental noise level and the Noise Reduction Rating (NRR).

EXAMPLE:

- The environmental noise level as measured at the ear is 89dB(A).
- The NRR is 23dB.
- The level of noise entering the ear is approximately equal to 66dB(A).

⚠️CAUTION: For noisy environments dominated by frequencies below 500 Hz, the C-weighted environmental noise level should be used.

NOTE: Although hearing protectors can be recommended for protection against the harmful effects of impulsive noise, the Noise Reduction Rating (NRR) is based on the attenuation of continuous noise and may not be an accurate indicator of the protection attainable against impulsive noise such as gunfire. The Environmental Protection Agency uses the Noise Reduction Rating (NRR) as a rating of a hearing protector's noise-reducing performance. Klein Tools cannot guarantee the suitability of the NRR as a method of rating protection as protection relies on the level and exposure of sound and how well a product fits.

AUDIO INPUT LEVEL

The audio level in the hearing protector is dependent on the audio input level. To prevent harmful noise levels, the AESBH1 Bluetooth® Behind-the-Head Earmuffs automatically default to less than 85dB when wirelessly connected to a music device. If the hearing protector is connected to a music device with a high audio output level, it is the user's responsibility to set the audio input level to a safe level. See table in FEATURE DETAILS section for noise exposure levels.

OPERATING INSTRUCTIONS

CHARGING EARMUFFS

Klein Tools' AESBH1 features a non-replaceable rechargeable lithium-ion battery pack.

1. Open the Silicone Port Cover (14) to access the USB-C Charging Port (13).
2. Using the included USB-A to USB-C charging cable (15), plug the USB-C end into the USB-C Charging Port (13) of the earmuffs while plugging the USB-A end into an appropriate charging source, such as a third party certified USB to AC wall adapter (not included, see GENERAL SPECIFICATIONS for charging requirements).
3. While the earmuffs are charging (0-99%), the Indicator LED (11) will breathe (dim to bright) red and will illuminate solid green when full (100%) charged. Recommend to fully charge before use.

FITTING/ADJUSTMENT

Protection from noise will be reduced when the cushion does not seal firmly against your head. Select eyeglasses or goggles that have thin, flat temples or straps which will minimize interference with the seal of the earmuff cushions. Pull long hair back to the extent possible and remove other items that may degrade the earmuff seal such as pencils or jewelry.

1. Before wearing, confirm that the earmuffs are in the correct orientation by referencing the Klein Tools logo on the outside of the Earmuff Cup (1) and making sure it is facing upright. You may also reference the "L" and "R" pad print inside the earmuff cup for left and right orientation (FIG. 1).
2. Hold Earmuff Cups (1) and lift behind head to place over ears (FIG. 2).
3. Position the Earmuff Cups (1) so that the Cushions (2) fully enclose the ears and provide an even pressure distribution against the head (FIG. 3).
4. To obtain a proper seal, adjust the Headband Pivot (6) position and Arm Bracket (7). If needed, adjust the Headband Extension (5) when in use position to obtain a firm, comfortable fit (FIG. 4).

REMOVAL/RESTING POSITION

Rotate the Earmuff Cups (1) up until you reach the hard stop in the "Resting" Position and adjust the angle to achieve the most comfortable cup position (FIG. 5).

POWER ON/OFF

ON: Press and hold the Multi-Function Button (8) for 3 seconds. The Indicator LED (11) will turn a solid green for 1 second, then turn off. Immediately following this a voice prompt of "Power ON" and Battery Charge Level will be heard. Refer to BATTERY STATUS section for further details.

OFF: Press and hold the Multi-Function Button (8) for 3 seconds. "Power OFF" voice prompt will be heard and the Indicator LED (11) will turn solid red for 1 second, then turn off.

BATTERY STATUS

Immediately upon turning on the device a voice prompt is heard to reflect the Battery Charge Level as reflected below:

- "Battery High": >75% battery life
- "Battery Medium": 75% - 4 hours of life
- "Battery Low": <4 hours of life

BLUETOOTH® PAIRING

After successfully powering on, the earmuffs will automatically enter Bluetooth® pairing mode. "Pairing" voice prompt will be heard and the Indicator LED (11) will breathe (dim to bright) blue every 3 seconds.

1. Ensure Bluetooth® is enabled on your device and it has discovered "AESBH1" in the pairing list.
2. Select "AESBH1" and upon successful connection, "Connected" voice prompt will be heard and the Indicator LED (11) will turn solid blue for 3 seconds, then turn off
3. In the event device does not successfully pair after 10 minutes, pairing mode will be exited and earmuffs will Auto Power Off. Turn device on to repeat Bluetooth® pairing.

NOTE: The earmuffs will automatically attempt to re-connect to the last known paired wireless device when turned on. The earmuffs are ready to pair with any Bluetooth® compliant device when powered on if the last paired device is not detected.

MUSIC OPERATION

- **Play/Pause:** Single-press the Multi-Function Button (8).
- **Next Track:** Double-press the Multi-Function Button (8).
- **Previous Track:** Triple-press the Multi-Function Button (8).
- **Volume Up:** Single-Press or Hold the Volume Up Button (9).
- **Volume Down:** Single-Press or Hold the Volume Down Button (10).

FIG. 1



FIG. 2



FIG. 3

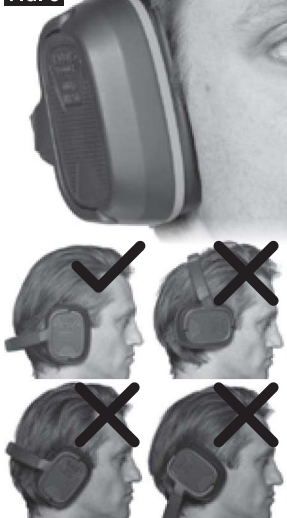


FIG. 4



FIG. 5



OPERATING INSTRUCTIONS

PHONE CALL OPERATION

- **Answer/End Calls:** Single-press the Multi-Function Button (8).
- **Reject Call:** Press and hold the Multi-Function Button (8) for 1 second.
- **Hold Current Caller and Answer New Incoming Call:** Double-press the Multi-Function Button (8).
- **Switch Between Two Active Calls:** Double-press the Multi-Function Button (8).
- **End Current Call and Other Call on Hold:** Press and hold the Multi-Function Button (8) for 1 second to end new call, then single-press to end initial call.

CLEANING

The earmuff shell and cushion can be gently wiped clean with lukewarm mild soapy water and dried with a soft cloth without rubbing. **Do not submerge earmuffs in water or treat with abrasive cleaners or solvents.**

STORAGE

If earmuffs are to be left unused for an extended period of time, charge before storing and recharge periodically during storage to maintain battery's capacity/life. Store in a cool, dry place between -4° to 113° F (-20° to 45°C). Do not store earmuffs in direct heat, sunlight, dust, or damaging chemicals.

MAINTENANCE

Regularly inspect earmuffs and ear cushions for excessive wear such as tears and/or visible cracks. Replace earmuffs if tears and/or cracks are visible on the shell and/or cushion. Replace earmuffs if there is a noticeable change in the fit and no longer sealing firmly against your head.

COMPLIANCE

FCC COMPLIANCE

⚠ This device complies with part 15 of the FCC RULES. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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

FCC RF EXPOSURE STATEMENTS:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC RF Exposure Guidelines. This device must not be co-located or operated in conjunction with any other antenna or transmitter.

IC COMPLIANCE

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions: This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: L'appareil ne doit pas produire de brouillage; L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This device complies with RSS-247 of Industry Canada. Operation is subject to the condition that this device does not cause harmful interference. This Class B digital apparatus complies with Canadian ICES-003. Cet appareil est conforme à la norme RSS-247 d'industrie Canada. Le fonctionnement est soumis à la condition que cet appareil ne provoque pas d'interférences nuisibles. Cet appareil numérique de classe B est conforme à la norme ICES-003 canadienne.

IC RADIATION EXPOSURE STATEMENT:

The equipment complies with SAR limits set forth for an uncontrolled environment and meets the RSS-102 of the IC RF Exposure Rules. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

L'équipement respecte les limites SAR établies pour un environnement non contrôlé et

Répond à la RSS-102 des règles d'exposition RF IC. Cet émetteur ne doit pas être localisé ou fonctionner en conjonction avec une autre antenne ou un autre émetteur.

CUSTOMER SERVICE

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