

60532



CAP-STYLE HARD HAT EARMUFFS – INSTRUCTIONS

ENGLISH

Klein Tools 60532 Cap-Style Hard Hat Earmuffs are designed to work with all Klein Tools Safety Helmets and Cap-Style Hard Hats* and intended to provide limited protection from harmful noise.

**Although the earmuffs may fit on other products with universal side slots, Klein Tools does not guarantee this product will perform to advertised specifications. The NRR rating was evaluated using 60145 and 60113RL models.*

⚠ 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/ADJUSTMENT section for proper fit.
- Avoid overprotection in minimal noise environments: using noise reduction equipment can reduce awareness of the surrounding environment.

MAINTENANCE

STORAGE: Regularly inspect earmuffs and ear cushions for excessive wear such as tears and/or visible cracks. Do not reshape the wire arms as this will cause a loose fit and reduce noise reduction rating.

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 seal firmly against your head.

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.



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INSTRUCTIONS FOR USE

FITTING/ADJUSTMENT

NOTE: For proper earmuff placement, hard hat suspension may need to be adjusted.

1. Attach the helmet connectors to each side of the hard hat by sliding into the slots (FIG. 1).
2. Place the helmet on the head and tighten, adjust the earmuffs by sliding the earmuff up or down to position over ears (FIG. 2).
3. Once positioned appropriately above the ears, minimize any interference (straps, goggles, hair, etc.) with the seal of the earmuff cushions for the best noise reduction results.
4. Put earmuffs into "In-use" position by pushing inwards on the wire arms until an audible click is heard (FIG. 3).
5. These earmuffs feature a "Stand-by" position, which creates a gap between the earmuffs and the ears. To achieve this "Stand-by" position, pull the earmuffs outward away from the head until there is an audible click (FIG. 4). To re-engage "In-use" position, repeat step 4.
6. To store the earmuffs on the back of the hard hat, first pull the earmuffs into the stand-by position as explained in step 5, then rotate 90° towards the back of the hard hat. Push the wire arms inward once earmuff is in the proper position on the back of the hard hat (FIG. 5).

REMOVAL

1. To remove earmuffs from the hard hat, push outward on the gray tabs on the helmet connector located inside the helmet (FIG. 6).
2. To remove earmuffs from the helmet connector, push down on the tab located on the helmet connector, push and slide the adapter out to remove earmuff from the helmet connector (FIG. 7).

NOISE REDUCTION RATING (NRR)

The NRR for the 60532 Cap Style Hard Hat Earmuff is*:

NRR 27 when paired with Klein Tools Cap-Style Hard Hats (tested on model 60113RL)

NRR 26 when paired with Klein Tools Safety Helmets (tested on model 60145)

It is tested and in accordance with ANSI S3.19-1974. To ensure adequate hearing protection, the earmuffs must be properly fit according to the INSTRUCTIONS FOR USE section.

ANSI S3.19-1974 TESTING – CAP-STYLE HARD HATS

Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA CLASS
Mean Attenuation (dB)	21.1	24.3	33.4	39.9	37.1	38.1	38.6	38.0	37.2	27	AL
Standard Deviation	3.9	2.6	3.3	3.9	2.7	3.0	3.9	2.6	2.9		

*Based on headband force of 3.3 lbs. (1.50 kg).

ANSI S3.19-1974 TESTING – SAFETY HELMETS

Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA CLASS
Mean Attenuation (dB)	18.6	23.1	32.5	40.3	37.5	38.8	38.9	37.4	35.9	26	A
Standard Deviation	3.5	2.6	2.4	3.5	2.5	2.3	3.9	3.9	4.1		

*Based on headband force of 3.0 lbs. (1.36 kg).

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

EXAMPLE:

- The environmental noise level as measured at the ear is 91dB(A).
- The NRR is 26dB.
- The level of noise entering the ear is approximately equal to 65dB(A). **CAUTION:** For noise 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 the user.

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.

