

FIG. A



FIG. B

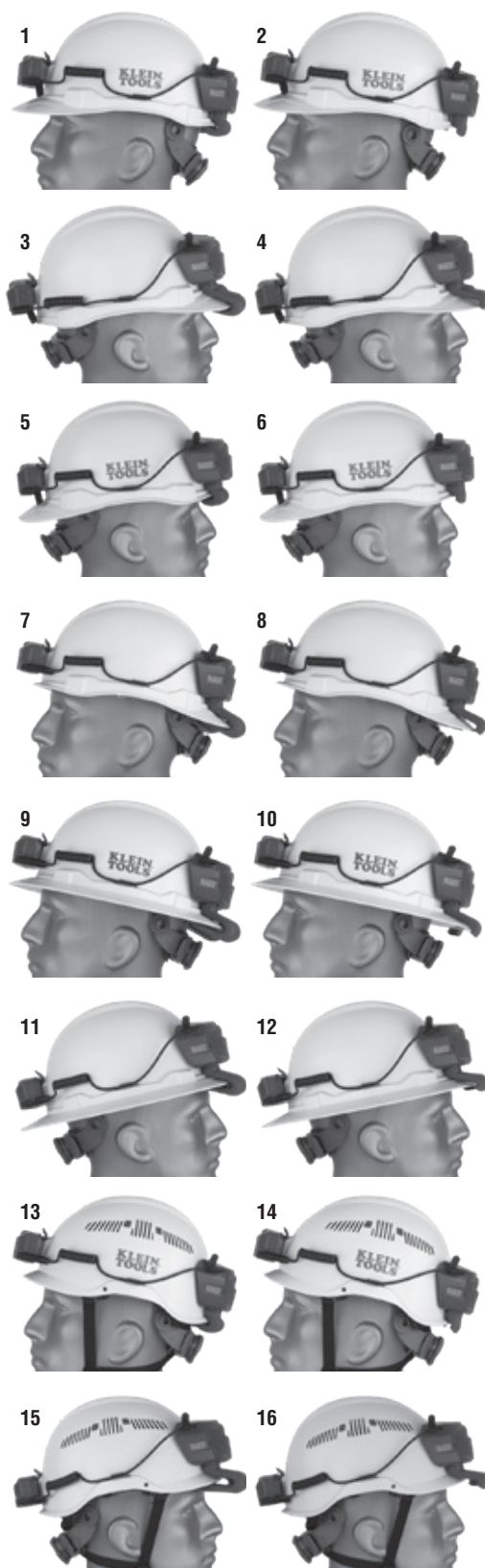


FIG. C



KLEIN TOOLS®

Cooling Fan

60155
INSTRUCTIONS

FIG. D

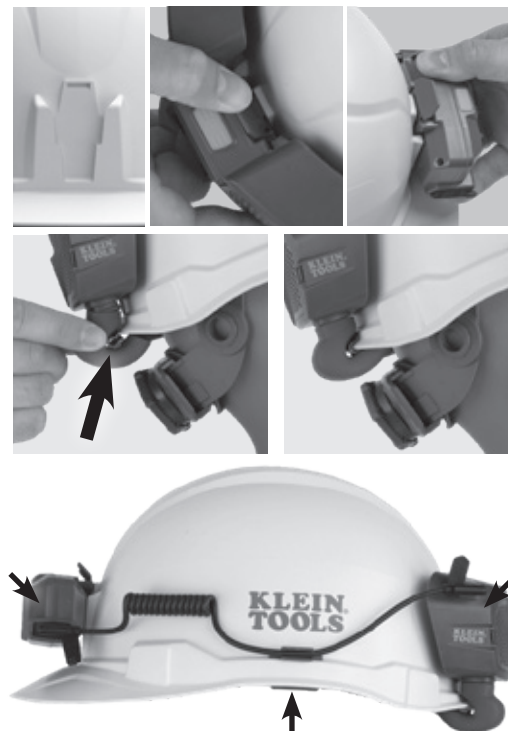


TABLE 1

Setup Fig.	Shell Type	Bill Position	Duct Style	Fan: Front	Fan: Back	Airflow Focus
B1	Cap Style	Standard	12		●	Inside Shell
B2	Cap Style	Standard	13		●	Neck
B3	Cap Style	Standard	14	●		Inside Shell/Forehead
B4	Cap Style	Standard	15	●		Face
B5	Cap Style	Reversed	14		●	Inside Shell
B6	Cap Style	Reversed	15		●	Neck
B7	Cap Style	Reversed	12	●		Inside Shell/Forehead
B8	Cap Style	Reversed	13	●		Face
B9	Full Brim	Standard	14		●	Inside Shell
B10	Full Brim	Standard	15		●	Neck
B11	Full Brim	Standard	14	●		Inside Shell/Forehead
B12	Full Brim	Standard	15	●		Face
B13	Safety Helmet	Standard	12		●	Inside Shell
B14	Safety Helmet	Standard	13		●	Neck
B15	Safety Helmet	Standard	14	●		Inside Shell/Forehead
B16	Safety Helmet	Standard	15	●		Face

NOTE: With all configurations shown, it is highly recommended that the battery be attached on the opposite accessory mount in order to help provide better balance and reduce fatigue.

⚠CAUTION: In some setup options the ducts may extend past the shell body-ensure you are comfortable with this setup prior to beginning work.

The 60155 Cooling Fan is designed for use with Klein Tools hard hats and safety helmets with patent-pending accessory mounts, for easy attachment and removal. Its dual-fan design forces outside air into the shell to push out stale hot air, facilitating cooling. Included user-replaceable ducts can be changed to direct air to cool the neck and face region, as well. The user can configure the system 16 different ways, depending on their preference. It is powered by a separate rechargeable modular battery (Cat. No. 29025) that can also be used to charge and/or power other Klein Tools devices, as well as charge some other portable electronic devices. The modular battery can be swapped out with a spare for extended runtime.

CONTENTS

- Cooling Fan
- Modular Battery
- Long Duct With Clip (x2)
- Long Duct Without Clip (x2)
- Short Duct With Clip (x2)
- Short Duct Without Clip (x2)
- USB-A to USB-C charging cable
- USB-C to USB-C charging cable
- Cable Clip
- This Instruction Sheet

GENERAL SPECIFICATIONS

- **Configuration:** Centrifugal Dual Fan
- **Operating Temperature:** -4° to 122°F (-20° to 50°C)
- **Charging Temperature:** 32° to 113°F (0° to 45°C)
- **Storage Temperature:** 14° to 104°F (-10° to 40°C)
- **Relative Humidity:** <60% non-condensing
- **Dimensions:** 6.2" x 2.8" x 3.0" (157.5 x 71.1 x 76.2 mm)
- **Weight (fan only):** 6.88 oz. (195 g)
- **Runtime*:** High: 3.5 hours Low: 6 hours
- **Drop Protection:** 6.6' (2 m)
- **Ingress Protection (IP) Rating:** IPX4
- **Certifications:** REACH, RoHS



Conforms to US STD. 507
Certified to: CSA STD. C22.2 NO. 60335-1,
60335-2-80

***NOTE:** Listed runtimes are based on fully-charged battery and continuous use. Frequent switching on and off will result in battery drain and reduced runtime.

Specifications subject to change.

⚠ WARNINGS

Read, understand, and follow these instructions to ensure safe operation. Failure to observe these warnings can result in risk of fire and burns, electric shock, serious injury and/or property damage. Always check with your site safety supervisor before use of this product. Local regulations may not permit use. Keep this user manual and comply with the instructions provided for this product.

- This product is **ONLY** intended for use with Klein Tools hard hats and safety helmets with accessory slots and accessory mounts designed to secure the fans and battery provided.
- Before each use, inspect components for damage. Secure and keep any loose hair away from the fans.
- **DO NOT** use a damaged or modified battery. Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion or risk of 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** use any other cables or batteries not designed for use with this device. Refer to the user manual for proper charging instructions. Replace **ONLY** with Klein Tools replacement parts.
- **DO NOT** immerse in water or other liquids
- Properly seal the USB 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 USB 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 vibration, impacts, or drops greater than 6.6' (2m). The housing 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 battery, fans, or charging cable. There are no user-serviceable parts.

SYMBOLS ON COOLING FAN AND/OR BATTERY



Warning or Caution



Risk of Electrical Shock



Read Instructions



Recyclable



Independently tested by Intertek and meets applicable standards.



Energy Efficiency Verified

FEATURE DETAILS (FIG. A)

- | | |
|-----------------------------|--------------------------------|
| ① Accessory Mount | ⑧ Short Duct Without Clip (x2) |
| ② Duct Ports (x2) | ⑨ Long Duct With Clip (x2) |
| ③ Removable Grille (x2) | ⑩ Long Duct Without Clip (x2) |
| ④ Cooling Fan Release Tab | ⑪ USB-C to USB-C 2.0 Cable |
| ⑤ Power / Mode Button | ⑫ USB-C to USB-A 2.0 Cable |
| ⑥ USB-C Power Input Port | ⑬ Cable Clip |
| ⑦ Short Duct With Clip (x2) | ⑭ Grille Release Tabs (x2) |

OPERATING INSTRUCTIONS

CHARGING THE MODULAR BATTERY

See 29025 Modular Battery manual for details.

INSTALLATION (FIGS B, C, D)

The Cooling Fan can be set up in various configurations to suit the user's needs. TABLE 1 and FIG. B illustrate various combinations.

NOTE: Certain cap style setups (B5 - B8) require reversing the hard hat's suspension. See instructions on www.kleintools.com (reference the model number found on the hard hat warning label inside the shell).

1. Choose a configuration from the TABLE 1 and FIG. B, based on the hard hat shell type you plan to use, and locate the corresponding matching pair of ducts. Install the square opening of both ducts to the fan's duct ports ② as shown (FIG. C).
2. Install the fan and battery into the hard hat accessory mounts per the chosen configuration from TABLE 1. Slide the components down until the release tab snaps into the accessory mount (FIG. D).
3. Secure the clip located on the inside curve of the ducts to the brim of the hard hat to maintain duct position (FIG. D).
4. To connect the coiled USB-C to USB-C cable ⑪ between the fan and battery, open the USB port covers on both the fan ⑥ and the battery and attach the cable connectors as shown. Firmly push in the connector until it stops.
5. Insert the Cable Clip ⑬ into the universal accessory slot on the hard hat, then secure the cable into the clip (FIG. D).

NOTE: While either end of the cable can be plugged into either component, the coiled end is intended to attach to the battery.

NOTE: While both USB-C ports on the battery are usable, using the one on the same side as the fan port is highly recommended.

NOTE: It is highly recommended that a chinstrap be used, even for hard hat models that do not include one, especially on jobs at-height or requiring constant head motion. The optional Klein Tools Chinstrap (Catalog no. KHHSTRP) is available for Klein Tools hard hats that do not include one with purchase. The chinstrap is included with Klein Tools Safety Helmet models.

POWER ON/OFF AND SPEED SELECTION ⑤

1. Ensure the fan is properly connected to the Modular Battery using the included USB-C cable ⑪.
2. Press the Power / Mode Button to power on the fan. The fan will default to low speed on startup.
3. Press the Power / Mode Button a second time to switch to high speed.
4. Press the Power / Mode Button a third time to power off the fan.

NOTE: It could take 10-15 seconds (or more) to feel effects of proper air circulation, especially in a very hot environment.

MOUNTING ADDITIONAL ACCESSORIES

Accessories can be mounted onto the fan or battery via Klein Tools' patent-pending accessory mounts. A headlamp or safety lamp can be attached to the accessory mount of the battery or fan. For more information, see the REPLACEMENT PARTS AND ACCESSORIES section.



FREQUENTLY ASKED QUESTIONS (FAQs)

HOW DOES THE COOLING FAN WORK?

The cooling fan is designed to force air into the shell or a focused area, such as the face or neck. When air is directed into the shell, it forces stale heated air from under the shell, replacing it with cooler air. Keeping the fan running ensures the temperature under the shell is maintained closer to ambient levels. Non-vented models benefit greatly from this air movement due to lack of air movement under the shell compared to a vented model. Klein Tools has made it possible to configure the system in 16 different ways, ensuring the user can find an optimal setup for the job at hand!

REPLACEMENT PARTS AND ACCESSORIES

- **29025** – Replacement Modular Battery
- **60490** – Replacement Ducts, Charging Cables, Cable Clip
- **56048** – Rechargeable Headlamp, 400 Lumens, Auto-Off Sensor
- **56062** – Rechargeable Headlamp/Worklight, 300 Lumens
- **56049** – Rechargeable Light Array Headlamp, 260 Lumens
- **60156** – Intrinsically Safe LED Headlamp
- **56063** – Safety Lamp
- **56414** – Rechargeable 2-Color LED Headlamp

CLEANING

Prior to cleaning, be sure fan is disconnected from the battery. Use clean, dry, soft lint-free cloth to wipe down. If any debris is stuck in the fan blades, ducts, or grille holes, gently free any objects stuck on fan blades using a blunt wooden pick. **DO NOT** use harsh cleaning chemicals, sharp metal picks, abrasive brushes, and/or pressurized air to dislodge stuck debris from the fan blades. The debris may become dislodged inside the fans and permanently damage the fan and its electronics.

If necessary, remove and clean the grilles and ducts under clean cool water (use mild soapy water, if needed) and air dry before installing. **DO NOT** scrub with abrasive brushes, sponges, and abrasive cleaners. To remove, push in the grille release tab(s) ⑭ and pull back. To reinstall, locate and place the grille onto the two locating slots on the fan housing and, push grille inward until the release tab(s) ⑭ click into place.

Wipe down the cables with soft, clean, dry cloth. Inspect for tears, cuts, cracks, corrosion, bent connectors, discoloration and other such damage. Replace immediately if any such defect is seen. **DO NOT** attempt to repair. Replace **ONLY** with Klein Tools replacement parts.

STORAGE

Be sure cooling fan is disconnected from any power sources or devices. Store components in a cool, dry place away from direct sunlight when not in use.

NOTE: It is highly recommended to remove the fan and battery from the hard hat or safety helmet prior to placing in storage.

DO NOT leave inside a vehicle or other confined spaces in temperature extremes, or in corrosive or unsanitary environments that can lead to decrease in service life, overheating, or fire. After taking out of storage, visually inspect fan, battery and all accessories for any damage. Replace any damaged parts as needed. It is recommended to clean each component prior to use (See CLEANING section above).

Allow all components to return to ambient conditions before recharging battery and/or operating.

FCC & IC COMPLIANCE

See this product's page at www.kleintools.com for FCC compliance information.

Canada ICES-003 (B) / NMB-003 (B)

DISPOSAL / RECYCLE



Do not place equipment and its accessories in the trash. Items must be properly disposed of in accordance with local regulations. See www.epa.gov/recycle for additional information.

CUSTOMER SERVICE

KLEIN TOOLS, INC.

450 Bond Street, Lincolnshire, IL 60069 1-800-553-4676
customerservice@kleintools.com www.kleintools.com

FIG. A



FIG. B

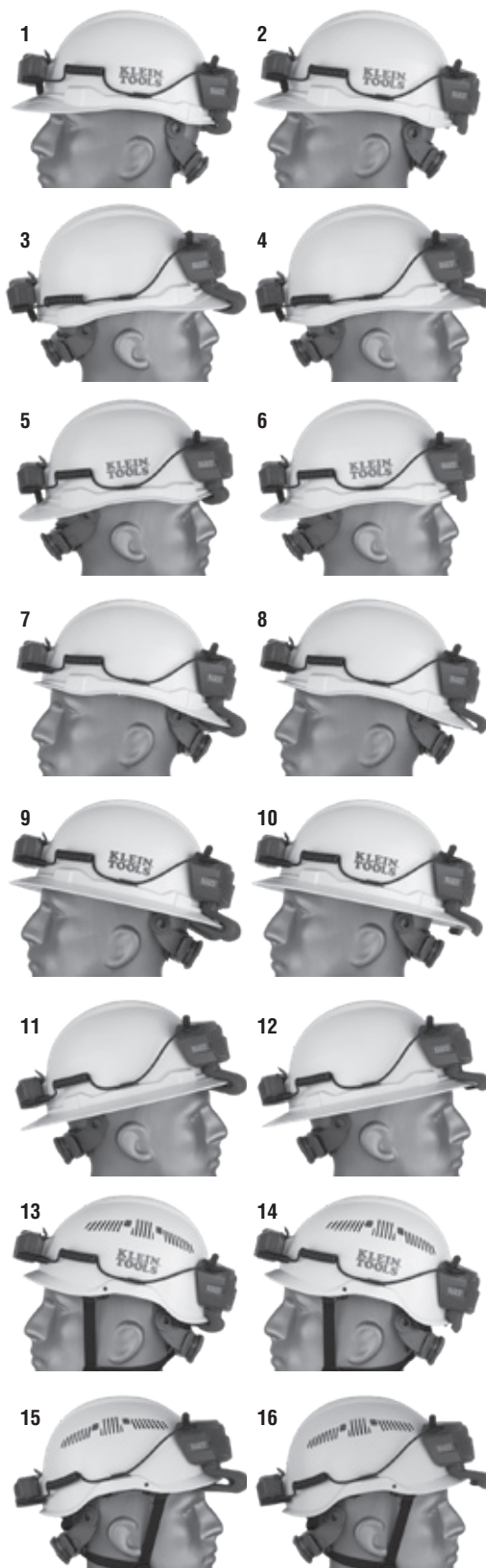


FIG. C



KLEIN TOOLS

60155
INSTRUCCIONES

Ventilador de enfriamiento

FIG. D



TABLA 1

Fig. de configuración	Tipo de casco	Posición de la visera	Estilo de conducto	Ventilador: Parte frontal	Ventilador: Parte posterior	Flujo de aire localizado
B1	Estilo cachucha	Estándar	12		●	Dentro del casco
B2	Estilo cachucha	Estándar	13		●	Cuello
B3	Estilo cachucha	Estándar	14	●		Dentro del casco/ Frente
B4	Estilo cachucha	Estándar	15	●		Rostro
B5	Estilo cachucha	Invertido	14		●	Dentro del casco
B6	Estilo cachucha	Invertido	15		●	Cuello
B7	Estilo cachucha	Invertido	12	●		Dentro del casco/ Frente
B8	Estilo cachucha	Invertido	13	●		Rostro
B9	Ala completa	Estándar	14		●	Dentro del casco
B10	Ala completa	Estándar	15		●	Cuello
B11	Ala completa	Estándar	14	●		Dentro del casco/ Frente
B12	Ala completa	Estándar	15	●		Rostro
B13	Casco de seguridad	Estándar	12		●	Dentro del casco
B14	Casco de seguridad	Estándar	13		●	Cuello
B15	Casco de seguridad	Estándar	14	●		Dentro del casco/ Frente
B16	Casco de seguridad	Estándar	15	●		Rostro

NOTA: en todas las configuraciones mostradas, es muy recomendable que la batería se instale en el accesorio del lado opuesto, a fin de ofrecer un mejor equilibrio y reducir la fatiga.

PRECAUCIÓN: en algunas opciones de configuración, los conductos se podrían extender más allá del cuerpo del casco; asegúrese de que se siente cómodo con esta configuración antes de comenzar a trabajar.