

FIG. A MODULAR BATTERY



**KLEIN
TOOLS**
ESTD. 1857

Cooling Fan - Instructions



FIG. B COOLING FAN

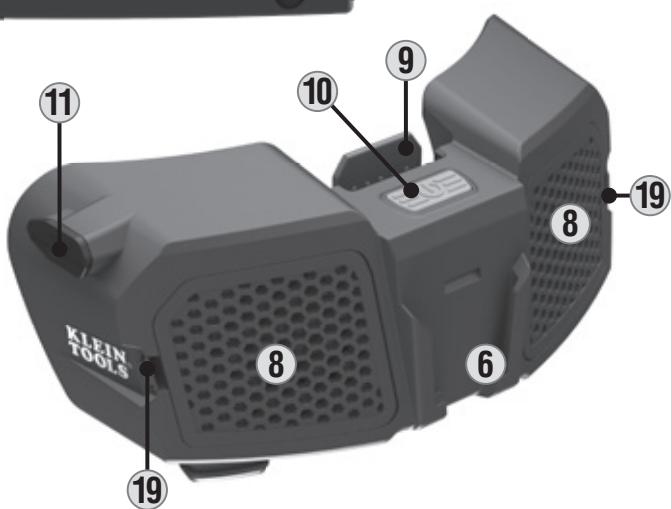


FIG. D CABLES

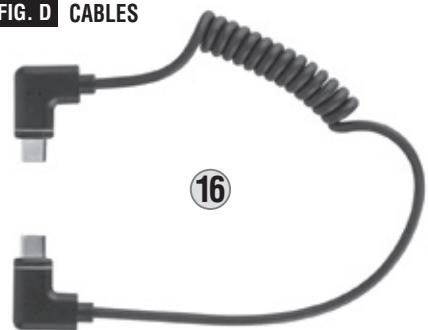


FIG. C DUCTS



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 detachable, modular, rechargeable lithium-ion battery (Catalog no. 29025) which can also be used to charge other small USB powered devices.

CONTENTS

- Cooling Fan
- Rechargeable 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

COOLING FAN

- **Configuration:** Centrifugal Dual Fan
- **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 (on fully-charged battery, continuous use):** High: 3.5 hours Low: 6 hours
- **Drop Protection:** 6.6' (2 m)
- **Ingress Protection (IP) Rating:** IPX4

BATTERY

- **Dimensions:** 3.5" x 1.7" x 2.1" (88.9 x 43.2 x 53.3 mm)
- **Weight (battery only):** 3.85 oz. (109 g)
- **Cell Type:** 18650 Lithium-Ion
- **Capacity:** 3200mAh (11.7 Wh)
- **Input USB-C (each):** 5V DC, 1.1A
- **Input USB-C (total):** 5V DC, 1.1A
- **Output USB-C (each):** 5V DC, 1.0A (1800 mAh) up to 2A Max
- **Output USB-C (total):** 5V DC, 1.0A (1800 mAh) up to 2A Max
- **Total Output Power:** 10 W Max.
- **Full Charge Time:** Up to 2.5 hours, based on charger output
- **Shelf Life:** Charge every 3 months
- **Charging Requirements:** 5V DC, Min. 1A recommended
- **Operating/Charging Temperature:** 32° to 104°F (0° to 40°C)
- **Storage Temperature (up to 3 months):** 14° to 104°F (-10° to 40°C)
- **Relative Humidity:** <75% non-condensing
- **Drop Protection:** 6.6' (2 m)
- **Ingress Protection (IP) Rating:** IP54
- **Standards:** UN38.3, DOE/CEC, NRCAN
- Conforms To UL STD. 2054, 1642, 62368-1, UL STD. 507, UL SUBJECT 2056
- Certified To CSA STD. C22.2 NO. 62368-1, CSA STD. C22.2 NO. 60335-1, 60335-2-80

Specifications subject to change.

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.

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.

COOLING FAN

- This product is ONLY intended for use with Klein Tools hard hats and safety helmets with accessory mounts designed to securely keep the modular cooling fan and battery provided.
- **DO NOT** use any other cables, batteries, or ducts not designed for use with this device. Refer to the user manual for proper charging instructions. Replace ONLY with Klein Tools replacement parts.
- Inspect daily. **DO NOT** use the product if damaged.
- **DO NOT** subject to vibration, impacts, or drops. 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** expose to open flame, heat sources, equipment that produces heat or vibration, or extremes in environmental temperature.
- **DO NOT** expose product to rain or snow.
- Keep away from high voltage devices.
- **DO NOT** attempt to repair the fan, charging cable, and ducts. There are no user-serviceable parts.
- **DO NOT** immerse in water or other liquids. Avoid spilling liquids or falling foreign objects into openings on the enclosure.
- **DO NOT** open, crush, or incinerate.
- Water-resistant port cover must be properly sealed 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 water-resistant 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** attempt to insert other USB connector types into USB-C port.
- Use of cable not recommended or sold with this unit may result in a risk of fire or injury to persons.

BATTERY

- Only use the battery in the applications per manufacturer's recommendations. Consult the instruction manual if unsure.
- Always charge and discharge the battery using the charging accessories recommended or provided by the manufacturer. The charger used shall comply with IEC 62368-1, PS2 power source. If charging accessories are damaged, **DO NOT** use or attempt to repair the cables and replace immediately. There are no user-serviceable parts.
- **DO NOT** attempt to charge or power any device with this battery without verifying if battery and device are compatible. Consult the user manuals for requirements for each.
- **DO NOT** charge or discharge the battery in excess of its rating. Overloading above rating may result in a risk of fire or injury to persons.
- In the event the battery leaks, keep away from skin and eye. If exposed, wash affected area with large amounts of water and seek medical attention.
- **DO NOT** use a damaged or modified battery. Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion or risk of injury.
- **DO NOT** subject to vibration, impact, or drops. 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** expose battery to extreme heat or cold, rain or snow, or fire.
- Keep away from high voltage devices.
- Keep battery out of reach of children. Children should be supervised when battery is in use.
- Risk of fire and burns. Do not open, crush, heat above 140°F (60°C), or incinerate. Follow all manufacturer's instructions.
- Dispose battery properly in accordance with local regulations.

SYMBOLS ON COOLING FAN AND/OR BATTERY

- ⚠ Warning or Caution
- ⚠ Risk of Electrical Shock

- ⚠ Read Instructions
- ♻ Recyclable

- ETL Intertek Independently tested by Intertek and meets applicable standards.

- ETL Intertek Energy Efficiency Verified

FEATURE DETAILS (FIG.A)

- 1 Battery Status Button
- 2 Battery Release Tab
- 3 Battery Status LED Indicator
- 4 USB-C Input/Output Ports (x2)
- 5 Accessory Mount For Headlamp
- 6 Accessory Mount
- 7 Duct Ports (x2)
- 8 Removable Grille (x2)
- 9 Cooling Fan Release Tab
- 10 Power On/Off / Speed Button
- 11 USB-C Power Input Port
- 12 Short Duct With Clip (x2)
- 13 Short Duct Without Clip (x2)
- 14 Long Duct With Clip (x2)
- 15 Long Duct Without Clip (x2)
- 16 USB-C to USB-C 2.0 Cable
- 17 USB-C to USB-A 2.0 Cable
- 18 Cable Clip
- 19 Grille Release Tabs (x2)

COMPLIANCE

FCC & IC COMPLIANCE

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.
- 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.

NOTE: The grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment.

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

TABLE 1

Setup Fig.	Shell Type	Bill Position	Duct Style	Fan: Front	Fan: Back	Airflow Focus
E1	Cap Style	Standard	12		●	Inside Shell
E2	Cap Style	Standard	13		●	Neck
E3	Cap Style	Standard	14	●		Inside Shell/ Forehead
E4	Cap Style	Standard	15	●		Face
E5	Cap Style	Reversed	14		●	Inside Shell
E6	Cap Style	Reversed	15		●	Neck
E7	Cap Style	Reversed	12	●		Inside Shell/ Forehead
E8	Cap Style	Reversed	13	●		Face
E9	Full Brim	Standard	14		●	Inside Shell
E10	Full Brim	Standard	15		●	Neck
E11	Full Brim	Standard	14	●		Inside Shell/ Forehead
E12	Full Brim	Standard	15	●		Face
E13	Safety Helmet	Standard	12		●	Inside Shell
E14	Safety Helmet	Standard	13		●	Neck
E15	Safety Helmet	Standard	14	●		Inside Shell/ Forehead
E16	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.

FIG. E

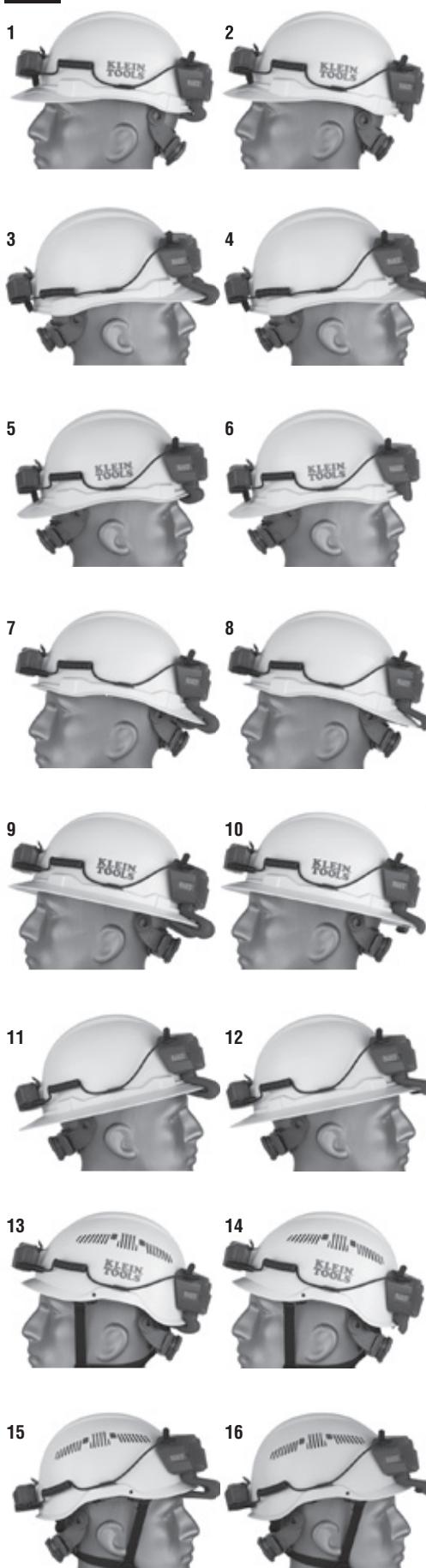


FIG. F



FIG. G

