CAT 1671614 Cube Lithium 4 in 1 Portable Jump Starter Instruction Manual

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CAT

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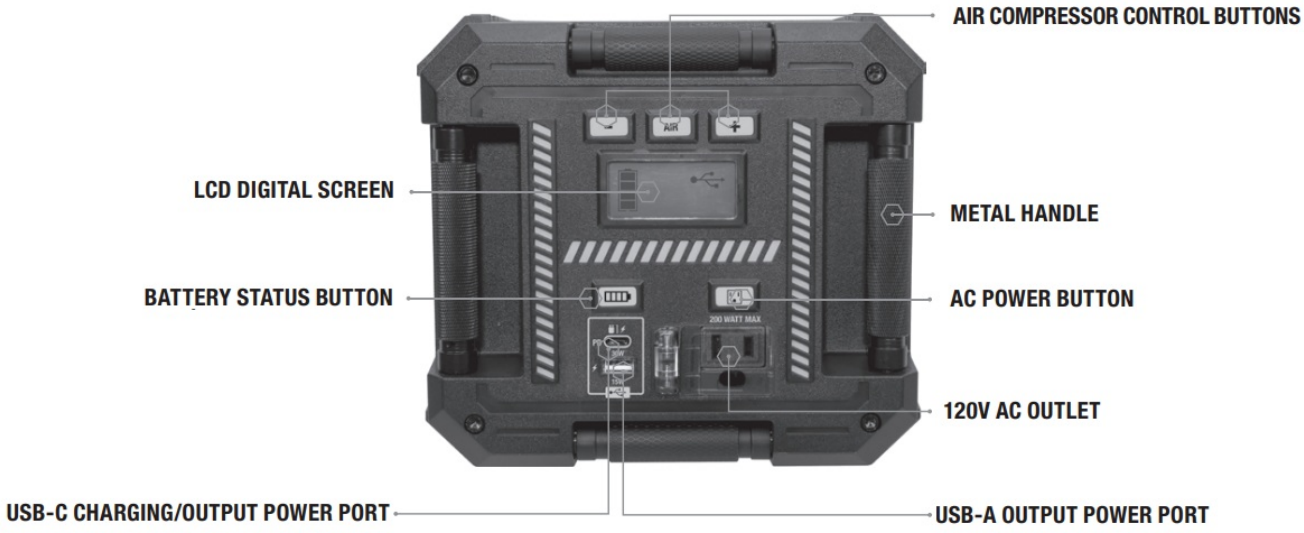

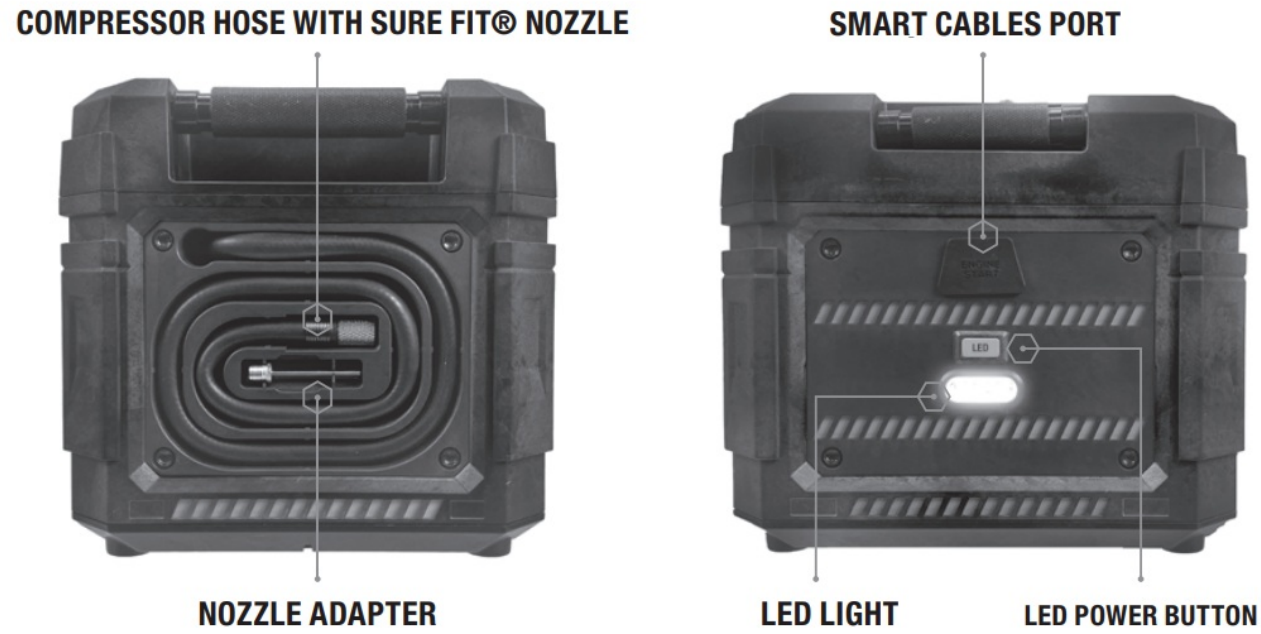

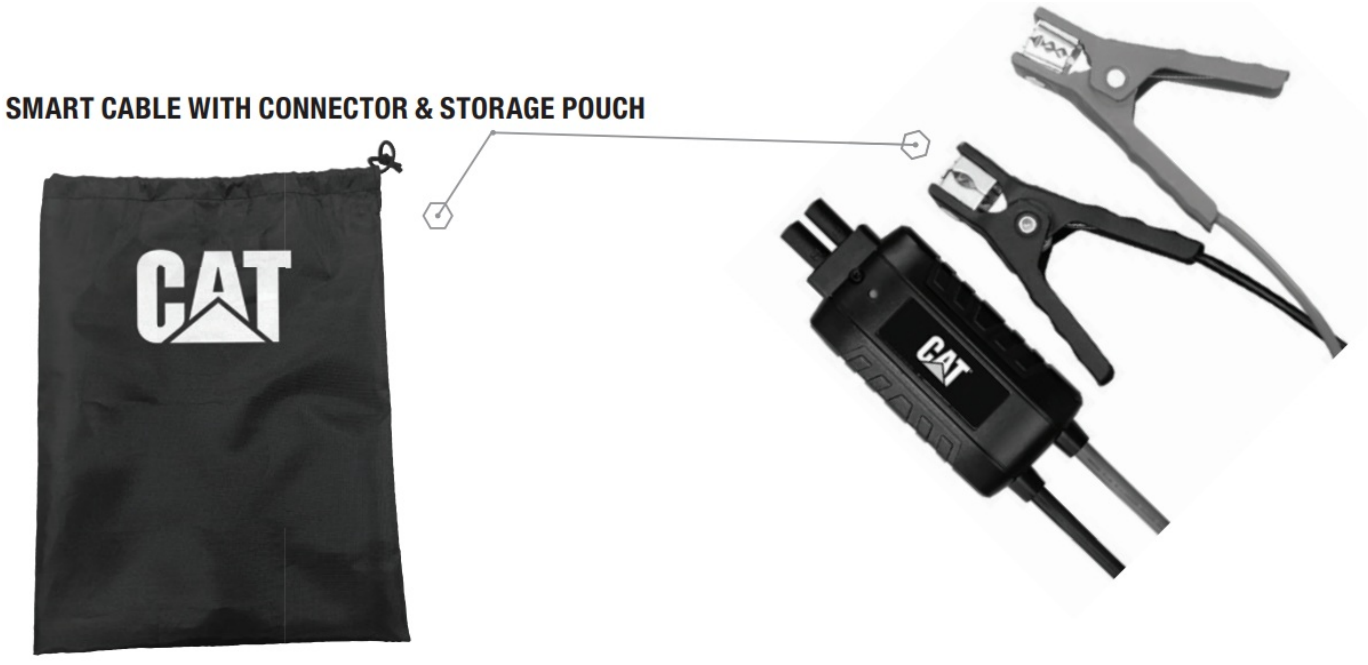

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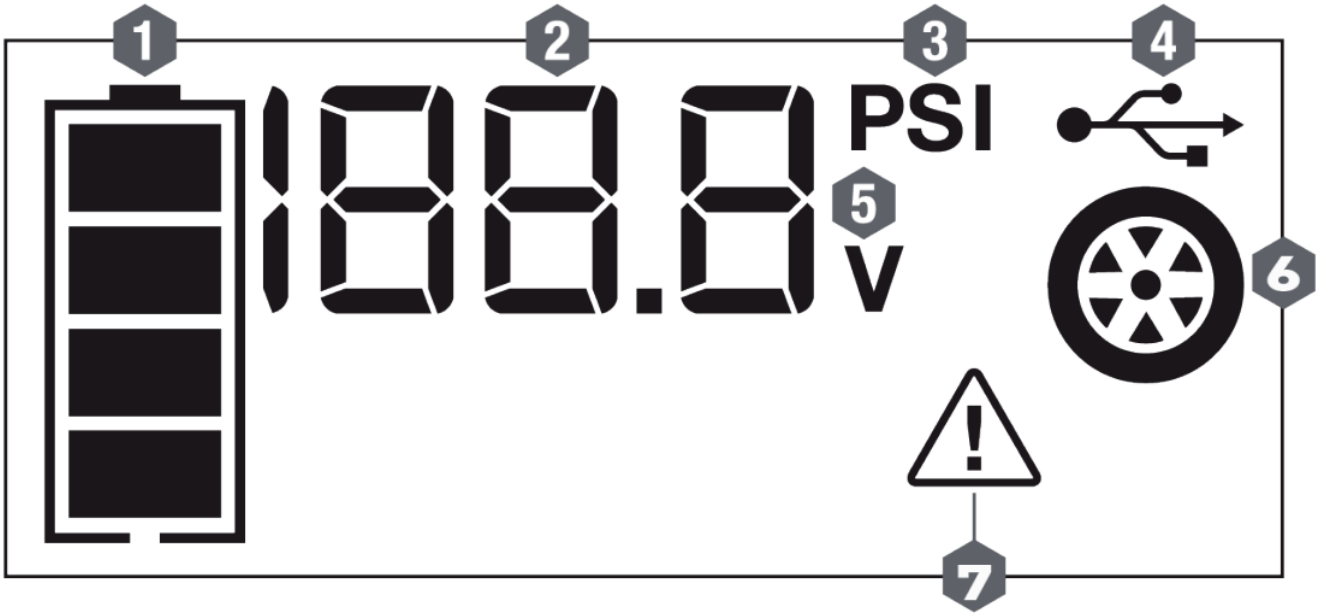


	BATERY STATUS ICON
	DIGITAL DISPLAY (VARIES BY FUNTION)
	COMPRESSER PRESSURE INDICATER
	USB ICON
	VOLTAGE INDICATER
	COMPRESSER ICON
	FAULT ICON

SAFETY GUIDELINES

DANGER: Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

WARNING: Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION: Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

CAUTION: Used without the safety alert symbol indicates potentially hazardous situation which, if not avoided, may result in property damage.

RISK OF UNSAFE OPERATION. When using tools or equipment, basic safety precautions should always be followed to reduce the risk of personal injury.

Improper operation, maintenance or modification of tools or equipment could result in serious injury and property damage.

There are certain applications for which tools and equipment are designed. Manufacturer strongly recommends that this product not be modified and/or used for any application other than for which it was designed. Read and understand all warnings and operating instructions before using any tool or equipment.

READ ALL INSTRUCTIONS

WARNING: Read all instructions before operating power station. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

IMPORTANT SAFETY INSTRUCTIONS

GENERAL SAFETY WARNINGS AND INSTRUCTIONS

- This unit was designed for household use only.

  WARNING – When using electrical appliances, basic precautions should always be followed, including the following:
- The jump-starter and supplied charging cable are not toys and cannot be played with as toys. To reduce the risk of injury, close supervision is necessary when these units are used near children.
- Use only attachments recommended or sold by the manufacturer.

  WARNING – To reduce the risk of electric shock:
- The Smart Cables Controller and Smart Cables Port are always “live”! Never insert fingers into the sockets or attempt to disassemble the unit.
- Do not put the unit in water or other liquid. Do not place or store this unit where it can fall or be pulled into water. Do not expose it to rain, snow or use when wet.
- Charge indoors only.
- Use only the USB charging cables supplied by the manufacturer to recharge.

  WARNING – RISK OF FIRE, ELECTRIC SHOCK, BURST HAZARD, OR INJURY TO PERSONS OR PROPERTY:
- Avoid dangerous environments. Don’t use appliances in damp or wet locations. Don’t use appliances in the rain.
- Keep children away. All visitors should be kept at a distance from work area.
- Dress properly. Do not wear loose clothing or jewelry. They can be caught in moving parts. Rubber gloves and substantial, non-skid footwear are recommended when working outdoors. Wear protective hair covering to contain long hair.
- Store idle appliance indoors. When not in use, appliances should be stored indoors in dry, and high or locked-up place – out of reach of children.

- Don’t abuse cord. Never carry appliance by cord or yank it to disconnect from receptacle. Keep cord from heat, oil, and sharp edges.
- Disconnect appliances. Disconnect the appliance from the power supply when not in use, before servicing, and when changing accessories.
- Ground Fault Circuit Interrupter (GFCI) protection should be provided on the circuits or outlets to be used. Receptacles are available having built in GFCI protection and may be used for this measure of safety.
- Use of accessories and attachments. The use of any accessory or attachment not recommended for use with this appliance could be hazardous. Refer to the accessory section of this manual for further details.
- Stay alert. Use common sense. Do not operate this equipment when you are tired or impaired.
- Check for damaged parts. Any part that is damaged should be replaced by the manufacturer before further use. Do not use tool if switch does not turn it on and off. Contact the manufacturer for more information.
- Do not operate this appliance near flammable liquids or in gaseous or explosive atmospheres. Motors in these tools normally spark, and the sparks might ignite fumes.
- Never submerge this unit in water; do not expose it to rain, snow or use when wet.
- To reduce risk of electric shock, disconnect the unit from any power source before attempting maintenance or cleaning. Turning off controls without disconnecting will not reduce this risk.
- This equipment employs parts (switches, relays, etc.) that produce arcs or sparks.
  Therefore, if used in a garage or enclosed area, the unit must be placed not less than 18 inches above the floor.
- Do not insert foreign objects into the USB ports or the 120V AC outlet.

SPECIFIC SAFETY INSTRUCTIONS FOR LITHIUM BATTERIES

WARNING – To reduce the risk of fire, electric shock, burst hazard, or injury to persons or property: Lithium batteries are small, compact and ideal for providing long-lasting power to this unit. However, they must be used and charged properly.

Improper use can result in serious injury, fire, or death.

- Lithium batteries can explode in the presence of a source of ignition. Do not use the product in the presence of an open flame.
- Do not place this lithium battery powered unit in fire or apply heat to it.
- Do not subject this lithium battery powered unit to strong impacts or shocks. The battery in this unit contains safety and protection devices which, if damaged, may cause the battery to generate heat, rupture or ignite.
- Do not expose this lithium battery powered unit to water or salt water, or allow the battery to get wet.
- Avoid storing this lithium battery powered unit in the basement, bathroom or other areas of the house that are or may become wet or humid or where moisture may concentrate.
- Do not leave this lithium battery powered unit in direct sunlight, or use or store the unit inside cars in hot weather. Doing so may cause the battery to generate heat, rupture, or ignite. Using the battery in this manner may also result in a loss of performance and a shortened life expectancy.
- Never charge this unit near heat or flammable objects.
- NEVER THROW WATER ON A BURNING LITHIUM BATTERY! If a lithium battery does catch on fire, it will burn even more violently if it comes in contact with water or even moisture in the air. A fire extinguisher must be used.

SPECIFIC SAFETY INSTRUCTIONS FOR CHARGING THIS UNIT

IMPORTANT: This unit is delivered in a partially charged state. Fully charge unit before using for the first time.

When stored at room temperature with a full charge, lithium batteries will begin to discharge from the time they are manufactured, even when unused. Deep discharges also decrease their capacity. Battery life can be extended by the following:

- Charge battery to full capacity before storage.
- Store this unit at temperatures between 5°C and 20°C (41°F and 68°F).
- Never discharge the battery fully.
- Charge after each use.
- Always charge at least once every 3-6 months if not in frequent use to prevent over discharge.
- To recharge this unit, use only the included charging cables.
- All functions should be turned off when the unit is charging or not in use. Make sure all switches are in the off position before connection to a power source or load.

TRANSPORTATION OF LITHIUM BATTERIES

- Always check all applicable local, national, and international regulations before transporting a unit containing a lithium battery.
- Transporting an end-of-life, damaged, or recalled battery may, in certain cases, be specifically limited or prohibited.

EXTENSION CORDS

 **WARNING:** Use of improper extension cord could result in a risk of fire and electric shock. When using an extension cord, make sure that the pins of the extension cord are the same number, size and shape as those in the charger; and be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. The following table shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gage. The smaller the gage number, the heavier the cord.

MINIMUM GAUGE FOR CORD SETS

VOLTS	TOTAL LENGTH OF CORD			
120V	0-25 ft. (0-7.6m)	26-50 ft. (7.6-15.2m)	51-100 ft. (15.2-30.4m)	101-150 ft. (30.4-45.7m)
240V	0-50 ft. (0-15.2m)	51-100 ft. (15.2-30.4m)	101-200 ft. (30.4-60.9m)	201-300 ft. (60.9-91.4m)

AMPERE RATING		EXTENSION CORD LENGTH			
More Than	Not more Than	0-25 ft.	26-50 ft.	51-100 ft.	101-150 ft.
		American Wire Gage (AWG)			
0 -	6	18	16	16	14
6 -	10	18	16	14	12
10 -	12	16	16	14	12
12 -	16	14	12	Not Recommended	

When an extension cord is used, make sure that 1. The pins of extension cord are the same number, size and shape as those in the charger, 2. The extension cord is properly wired and in good electrical condition and 3. The wire size is large enough for the AC rating of the charger.

CAUTION – TO REDUCE THE RISK OF INJURY OR PROPERTY DAMAGE:

Pull the extension cord by the plug rather than the cord when disconnecting from the AC outlet.

SPECIFIC SAFETY INSTRUCTIONS FOR JUMP STARTERS

WARNING: BURST HAZARD

Do not use the unit for charging dry-cell batteries that are commonly used with home appliances. These batteries may burst and cause injury to persons and damage property. Use the unit for charging/boosting a lead-acid battery only. It is not intended to supply power to a low-voltage electrical system other than in a starter-motor application.

- Use of an attachment not supplied, recommended or sold by manufacturer specifically for use with this unit may result in a risk of electrical shock and injury to persons.

WARNING: RISK OF EXPLOSIVE GASES

- Working in the vicinity of a lead acid battery is dangerous. Batteries generate explosive gases during normal battery operation. For this reason, it is of the utmost importance that each time before using the jump-starter you read this manual and follow instructions exactly.
- To reduce the risk of battery explosion, follow these instructions and those published by the battery manufacturer and manufacturer of any equipment you intend to use in the vicinity of the battery. Review cautionary markings on these products and on the engine.

CAUTION – TO REDUCE THE RISK OF INJURY OR PROPERTY DAMAGE:

- NEVER ATTEMPT TO JUMP-START OR CHARGE A FROZEN BATTERY.

- Do not operate unit with damaged cord or plug; or if the unit has received a sharp blow, been dropped, or otherwise damaged in any way.
- Do not disassemble the unit; return it to the manufacturer when service or repair is required. Opening the unit may result in a risk of electric shock or fire, and will void warranty.
- Make sure the cord is located so that it will not be stepped on, tripped over or otherwise subjected to damage or stress.
- Do not leave the unit unattended while in use.
- Pull by the plug rather than the cord when disconnecting the USB Charging Cable.
- Vehicles that have on-board computerized systems may be damaged if vehicle battery is jump-started. Before jump-starting, read the vehicle's owner's manual to confirm that external-starting assistance is suitable.
- Never smoke or allow a spark or flame in vicinity of vehicle battery, engine or power station
- Stay clear of fan blades, belts, pulleys, and other parts that can cause injury to persons.
- Remove personal metal items such as rings, bracelets, necklaces and watches when working with a lead acid battery. A lead acid battery can produce a short circuit current high enough to weld a ring, or similar metal object, to skin, causing a severe burn.
- Do not wear vinyl clothing when jump-starting a vehicle. Friction can cause dangerous static-electrical sparks.
- Be extra careful to avoid dropping a metal tool onto the battery. It might spark or short-circuit the battery or another electrical part and could cause an explosion.
- Jump-start procedures should only be performed in a safe, dry, well-ventilated area.
- Always store battery clamps when not in use. Never touch battery clamps together. This can cause dangerous sparks, power arcing and/or explosion.
- When using this unit close to the vehicle's battery and engine, stand the unit on a flat, stable surface, and be sure to keep all clamps, cords, clothing and body parts away from moving vehicle parts.
- Never allow red and black clamps to touch each other or another common metal conductor — this could cause damage to the unit and/or create a sparking/explosion hazard.
    - For negative-grounded systems, connect the positive (red) clamp to the positive ungrounded battery post and the negative (black) clamp to the vehicle chassis or engine block away from the battery. Do not connect the clamp to the carburetor, fuel lines or sheet-metal body parts. Connect to a heavy gage metal part of the frame or engine block.
    - For positive-grounded systems, connect the negative (black) clamp to the negative ungrounded battery post and the positive (red) clamp to the vehicle chassis or engine block away from the battery. Do not connect the clamp to the carburetor, fuel lines or sheet-metal body parts. Connect to a heavy gage metal part of the frame or engine block.
- Always disconnect the negative (black) jumper cable first, followed by the positive (red) jumper cable, except for positive grounded systems.
- Do not expose battery to fire or intense heat since it may explode. Before disposing of the battery, protect exposed terminals with heavy-duty electrical tape to prevent shorting (shorting can result in injury or fire).
- Place this unit as far away from the battery as cables permit.
- Never allow battery acid to come in contact with this unit.
- Do not operate this unit in a closed area or restrict ventilation in any way.
- This system is designed to be used only on vehicles with a 12 volt DC battery system. Do not connect to a 6 volt or 24 volt battery system.
- This system is not designed to be used as a replacement for a vehicular battery. Do not attempt to operate a

vehicle that does not have a battery installed.

- Excessive engine cranking can damage a vehicle's starter motor. If the engine fails to start after the recommended number of attempts, discontinue jump-start procedures and look for other problems that may need to be corrected.
- Do not use this power station on a watercraft. It is not qualified for marine applications.
- Although this unit contains a non-spill able battery, it is recommended that unit be kept upright during storage, use and recharging. To avoid possible damage that may shorten the unit's working life, protect it from direct sunlight, direct heat and/or moisture.

SPECIFIC SAFETY INSTRUCTIONS FOR INVERTERS

⚠ WARNING – TO REDUCE THE RISK OF ELECTRIC SHOCK:

- Do not connect to AC distribution wiring.
- Do not make any electrical connections or disconnections in areas designated as IGNITION PROTECTED. This inverter is not approved for ignition protected areas.
- Never immerse the unit in water or any other liquid, or use when wet.
- Do not insert foreign objects into the unit's AC outlet.

⚠ WARNING – TO REDUCE THE RISK OF FIRE:

- Do not operate near flammable materials, fumes or gases.
- Do not expose to extreme heat or flames.

⚠ CAUTION – TO REDUCE THE RISK OF INJURY OR PROPERTY DAMAGE:

- Disconnect appliance plug from inverter outlet before attempting any repairs to the appliance.
- When an appliance plugged into this unit is used outdoors, use only extension cords intended for use outdoors and so marked.
- Do not attempt to connect the inverter while operating your vehicle. Not paying attention to the road may result in a serious accident.
- Always use the inverter where there is adequate ventilation.
- Always turn the inverter off when not in use.
- Keep in mind that this inverter will not operate high wattage appliances or equipment that produce heat, such as hair dryers, microwave ovens and toasters.
- Do not use this inverter with medical devices. It is not tested for medical applications.
- Some laptop computers may not operate with this inverter.
- Operate inverter only as described in this Instruction Manual.

⚠ CAUTION: RECHARGEABLE DEVICES

- Certain rechargeable devices are designed to be charged by plugging them directly into an AC receptacle. These devices may damage the inverter or the charging circuit.
- When using a rechargeable device, monitor its temperature for the initial ten minutes of use to determine if it produces excessive heat.
- If excessive heat is produced, this indicates the device should not be used with this inverter.
- This problem does not occur with most of the battery-operated equipment. Most of these devices use a separate charger or transformer that is plugged into an AC receptacle.

- The inverter is capable of running most chargers and transformers.

SPECIFIC SAFETY INSTRUCTIONS FOR THE USB PORTS

- Do not insert foreign objects into the USB Ports.
- Do not attach USB hubs or more than one personal electronic device to each USB Port.
- Do not use this unit to operate appliances that require more than 15W for the USB-A port; and up to 30W when using the USB-C port only; total 15W output on both the USB-A and USB-C when they are used simultaneously.
- Some household USB-powered electronics will not operate with this unit.

SPECIFIC SAFETY INSTRUCTIONS FOR COMPRESSORS

CAUTION – TO REDUCE THE RISK OF INJURY OR PROPERTY DAMAGE:

- Never leave the compressor unattended while in use.
- Do not operate compressor continuously for longer than approximately 10 minutes, depending on ambient temperatures, as it may overheat. This could damage the compressor. Follow the instructions in the “Portable Compressor” section.

  WARNING – **BURST HAZARD:** Bursting articles can cause serious injury.
- Carefully follow instructions on articles to be inflated.
- Never exceed the recommended pressure listed in instructions on articles to be inflated. If no pressure is given, contact article manufacturer before inflating.
- Monitor the pressure at all times on the LCD screen.

FIRST AID

When working with lead acid batteries, always make sure immediate assistance is available in case of accident or emergency.

Always have protective eyewear when using this product: contact with battery acid may cause blindness and/or severe burns. Be aware of first aid procedures in case of accidental contact with battery acid.

Avoid touching the eyes while working with a battery. Acid, acid particles or corrosion may get into the eyes.

Have plenty of fresh water and soap nearby in case battery acid contacts skin.

Remove personal metal items such as rings, bracelets, necklaces and watches when working with a lead-acid battery. A lead-acid battery can produce a short circuit current high enough to cause a severe burn.

Be extra cautious to reduce the risk of dropping a metal object onto the battery. This might cause sparks or short-circuit the battery or other electrical part, which can cause an explosion.

WARNING – Battery fluid is a diluted sulphuric acid and may cause personal injury or damage to property. In case of skin or eye contact, follow the instructions below.

- Skin: If battery acid comes in contact with skin, rinse immediately with water, then wash thoroughly with soap and water. If redness, pain, or irritation occurs, seek immediate medical attention.
- Eyes: If battery acid comes in contact with eyes, flush eyes immediately, for a minimum of 15 minutes and seek immediate medical attention.
- LCD liquid crystal display: If liquid crystal comes in contact with your skin: Wash area off completely with plenty of water. Remove contaminated clothing. If liquid crystal gets into your eye: Flush the affected eye with clean water and then seek medical attention. If liquid crystal is swallowed: Flush your mouth thoroughly with water. Drink large quantities of water ,induce vomiting and seek medical attention.

SAVE THESE INSTRUCTIONS

 **WARNING** – To reduce the risk of injury: Follow these instructions and those published by the battery manufacturer and manufacturer of any equipment you intend to use with this unit. Review cautionary markings on these products and on engine.

IMPORTANT NOTES:

- Several factors can affect a jump-starter's ability to boost a vehicle's battery, including, but not limited to the size of the battery, the temperature (hot or cold), whether the battery is damaged or defective, and whether the jump-starter itself is fully charged.
- The jump-starter requires a minimum voltage to detect the correct connection before it will begin to boost. If the vehicle battery voltage is below approximately 2 volts, it may not be able to detect connection and may not be able to start the vehicle. While this low battery voltage is rare it may occur under extreme conditions.

OVERVIEW

COMMON ACTIONS AND UNIT RESPONSES

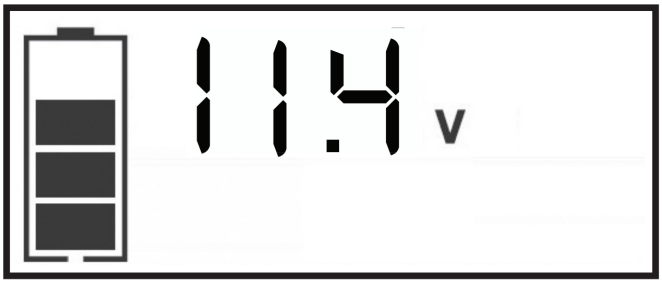
The following actions turn the unit on and activate the LCD screen:

Press the LED Area Light Power Button. (Refer to the “ LED Area Light” section.)	A beep will sound and the Area Light will turn on. The backlight will turn on for 10 seconds (only). The LCD s creen will continue to display the Battery Status Icon a nd Battery Voltage Indicator. The unit remains on until t he LED Area Light Power Button is pressed again to tu rn it off.
Press the AC Power Button. (Refer to the “120V AC Po wer Outlet” section.)	A beep will sound and the backlit LCD screen will displ ay the Battery Status Icon and the Digital Display shows “AC”, indicating the AC outlet is ready to use. T he unit remains on until the AC Power Button is presse d again to turn it off.
Connect An USB-A or USB-C Powered Device to USB -A or USB-C Port	The LCD screen will display the Battery Status Icon, B attery Voltage Indicator, and the USB Icon.
Press the Battery Status Button. (Refer to the “Viewing Battery Status” section.)	A beep will sound and the backlit LCD screen will displ ay the battery status and voltage indicator for 10 secon ds before the unit automatically turns off.
Press the Compressor Power Button. (Refer to the “Po rtable Compressor” section.)	A beep will sound and the backlit LCD screen will displ ay the Battery Status Icon, “XXX” PSI and the Compre ssor Icon. If no further actions are taken after 1 minute, the unit will display the Battery Status Icon and Battery Voltage Indicator for 10 seconds before automatically t urning off.
When the unit is charging or recharging (refer to the “ Charging/Recharging” section)	The backlight will turn on for 10 seconds (only). The L CD screen will continue to display the Battery Status Ic on and Battery Voltage Indicator. The bars on the Batte ry Status Icon will change from empty to solid (bottom t o top) repeatedly.

Note: The unit will automatically power off once all the functions are turned off.

VIEWING BATTERY STATUS

To check the unit’s battery charge level, press the Battery Status Button. The Battery Status Icon and Battery Voltage Indicator indicate the battery charge level as follows.



- If the battery charge level is at full capacity, four solid bars will display.
- If the battery is partially charged, two or three solid bars will display.
- If the battery is nearly empty, one solid bar will display. The unit should be charged at this time.
- If the battery is completely empty, the empty Battery Status icon may display.
- The unit MUST be charged at this time or the unit's built-in low voltage protection will activate.

CHARGING/RECHARGING

IMPORTANT CHARGING NOTES

1. This unit is delivered in a partially charged state – you must fully charge it before using it for the first time. When the unit is not in use, we recommend that the battery is charged at least every 3 to 6 months.
2. Recharging the battery after each use will prolong battery life; frequent heavy discharges between recharges and/or overcharging will reduce battery life.
3. Make sure all other unit functions are turned off during recharging, as this can slow the recharging process.

CAUTION – Risk of property damage: Failure to keep the battery charged will cause permanent damage and result in poor jump starting performance.

NOTES:

- During the charging process, the unit will stop charging if the battery is:
    - Overheated due to extensive use or recharging. The process will automatically resume after a cool down period;

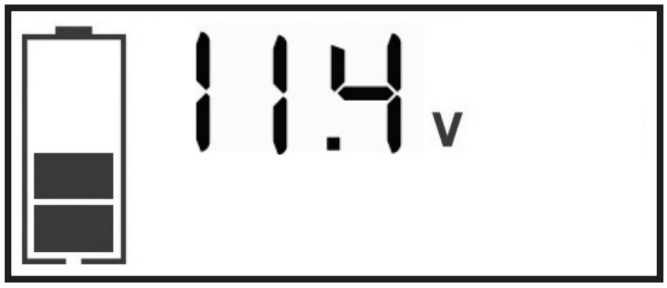
      OR
    - Too cold (the ambient temperature has dropped below 0°C). The process will automatically resume after a warm up period.

The LCD Display will show the Battery Icon, the Battery Voltage Indicator, and the flashing Fault Icon.

PROCEDURE

USB CHARGING CABLE AND A DEVICE WITH AN USB POWER PORT (NOT SUPPLIED)

1. Make sure all other unit functions are turned off during recharging, as this can slow the recharging process.
2. Insert the USB-A plug or USB-C plug at one end of the USB Charging Cable into an external device's functional USB power port.
3. Insert the USB-C plug at the other end of the USB Charging Cable into the USB-C port on the front of unit.
   When the unit is properly connected, after a few seconds the backlit LCD Display will show the following:



   The bars on the Battery Status Icon will change from empty to solid (bottom to top) repeatedly to indicate the unit is charging. The backlit LCD Display will turn on for 10 seconds (only).
   When the unit is fully recharged, the Battery Status Icon shows 4 solid bars.
4. Disconnect the USB Charging Cable from the external device's USB power port and the unit.
5. After a short period of time the unit will automatically shut down.
6. When charging is complete, store the USB Charging Cable in a safe place.
   Notes: The charging process is slower when using the USB-A to USB-C charging cable. The manufacturer recommends using the USB-C to USB-C charging cable and an external USB-C power source with PD 30W output to charge the unit.
   Do not charge the unit over 10 hours through an external USB-C power source with PD 30W output The unit should be fully recharged within 10 hours with this method.

JUMP-STARTING USING THE SMART CABLES

IMPORTANT: All features must be turned off with the exception of the area light when jump-starting. The unit is intended to be used only in the upright position. The unit must be kept upright during use. See the illustration to the right for correct orientation.

Battery Clamp Connection Precautions

- Connect and disconnect the battery clamps only after unplugging the power source.
- Make sure engine is not running when connecting/disconnecting battery clamps.
- Never allow clamps to touch each other.
- Attach clamps to battery and chassis as indicated in the section “Connecting the Jump-Starter Using the Included Battery Clamps”.

Connecting the Jump-Starter Using the Included Battery Clamps

1. Position the Smart Cables Controller to reduce risk of damage by the car hood, doors, or moving engine parts.
2. Stay clear of fan blades, belts, pulleys, and other parts that can cause injury to persons.
3. Check polarity of battery posts. The positive (POS, P, +) battery post usually has larger diameter than the negative (NEG, N, –) post.
4. Connect the Smart Cables Connector to the Smart Cables Port. Be especially careful, since both the Connector and Controller are “live.”
5. Connect the positive (RED) clamp from the jump-starter to the positive (POS, P, +) ungrounded battery post. Connect the negative (BLACK) clamp to the negative (NEG, N, –) battery post, the vehicle chassis or engine block away from the battery. Do not connect the clamp to the carburetor, fuel lines or sheet-metal body parts. Connect to a heavy gauge metal part of the frame or engine block.
   Note: If the battery clamps are incorrectly connected with regard to polarity, the Bi-Color Jump-Starter Status Indicator will light red until the clamps are disconnected. Remove the clamps and then reconnect them with correct polarity.
6. When disconnecting the jump-starter, first remove the negative **BLACK (–)** clamp from the negative battery post or the vehicle chassis, and then remove the positive RED (+) clamp from the positive battery post. Disconnect the double barrel connector of the Smart Cables Controller from the Smart Cables Port of unit. Store the Smart Cables Controller in a safe place.

Procedure

Take the following steps, observing all cautions and warnings in the “Important Safety Instructions” section at the front of this manual.

1. Turn off vehicle ignition and all accessories (radio, A/C, lights, connected cell phone chargers, etc.). Place vehicle in “park” and set the emergency brake.
2. Make sure all the unit functions are turned off and the USB Charging Cable is NOT connected.
3. Lift up the protective cover of the unit’s Smart Cables Port. Insert the double barrel Smart Cables Connector into the Smart Cables Port on the unit.
4. Set up the unit as described in the “Connecting the Jump-starter Using Included Battery Clamps” section, observing all warnings and cautions in the “Important Safety Instructions” section.
5. When the unit is properly connected, the Bi-Color Status Indicator on the Smart Cables Controller will light green.
6. Turn on the ignition and crank the engine in 5-6 second bursts until the engine starts.
7. When the process is completed, disconnect the jump-starter. First remove the negative BLACK (–) clamp from

vehicle chassis, and then remove the positive RED (+) clamp from the positive battery post. Disconnect the double barrel Smart Cables Connector from the Smart Cables Port.

8. Store the Smart Cables Controller in a safe place.
9. Recharge the unit fully.

IMPORTANT NOTES:

If the battery clamps are incorrectly connected with regard to polarity, the Bi-Color LED Status Indicator will light red until the clamps are disconnected. Remove the clamps and then reconnect them with correct polarity.

If the voltage of the unit's internal lithium battery is low and has insufficient output power, the Bi-Color LED Status Indicator will light red. Disconnect the unit and fully charge following the directions in the "Charging / Recharging" section.

If the Smart Cables Controller is overheated, the Bi-Color LED Status Indicator will light red. Disconnect the Battery Clamps and allow the unit to cool down for a period before resuming any operation.

If the cranking current and/or time period exceeds the unit's parameters, the Bi-Color LED Status Indicator will flash red for 50 seconds (a cooling down period) before lighting green again (resuming normal operation).

CAUTION – To avoid the risk of property damage:

- If the vehicle doesn't start after the first attempt, allow a resting/cooling period of 4 to 5 minutes before making a second attempt. If a second attempt doesn't start the vehicle, discontinue use and look for other problems that need to be corrected. The battery may be damaged.
- NEVER attempt to use the unit to start a vehicle while it is in charging mode.
- Using the jump-starter without a car battery installed in the vehicle will damage the vehicle's electrical system.

PORTABLE COMPRESSOR

The built-in compressor is the ultimate compressor for all vehicle tires, trailer tires and recreational inflatables. A nozzle adaptor is supplied that screws onto the end of the Sure Fit® nozzle at the free end of the compressor hose. The compressor hose with tire fitting is stored in the hose storage groove on the left of the unit.

Refer to the "Features" section to locate. The Compressor Power Button and Increase (+) and Decrease (–) Compressor Pressure Control Buttons are located on the control panel on the top of the unit.

Before proceeding, check the unit's battery status on the LCD screen. Four solid bars in the battery icon indicates a full battery. When the battery level is nearly empty with only one solid bar, the unit MUST be recharged before use or the unit's built-in low voltage protection will activate. The empty Battery Status Icon will flash for a short period of time and then the unit will display the Battery Status Icon and Battery Voltage Indicator for a short period of time before automatic shut down.

If the battery of the unit overheats or is too cold, the compressor automatically shut down. The compressor is capable of inflating up to 120 pounds per square inch (PSI) pressure. Return hose to the hose storage groove after use.

WARNING – To reduce the risk of serious injury or property damage: Follow all safety instructions found in the "Specific Safety Instructions for Compressors" section of this instruction manual.

CAUTION – To reduce the risk of serious injury or property damage:

When the compressor is operated at a low PSI, the unit may start in low and gradually rev up. When the compressor is operated at higher PSIs, the unit may operate normally for several minutes, then rev down for a few minutes before returning to normal operation.

This feature protects the unit from overheating during normal use. In any event, do not operate compressor continuously for longer than 10 minutes, as it may overheat. This could damage the compressor.

If the compressor must be operated for longer periods: every 10 minutes press the Compressor Power Button to turn the compressor off, then restart after a cooling down period of approximately 30 minutes.

In any event, the compressor will automatically shut down after operating continuously for 10 minutes.

INFLATING TIRES OR PRODUCTS WITH VALVE STEM

1. Screw the Sure Fit® nozzle onto the valve stem. Do not overtighten.
2. Press the Compressor Power Button. A beep will sound and the backlit LCD screen will display the following:

The Compressor Icon will light and the digital display will alternately show the flashing pre-set psi value (that was last set by the compressor pressure control buttons) and the current pressure of the item being inflated (which will light solid).

3. Press the “+” and “–” Pressure Control Buttons to set the desired pressure from a range pre-set values (between 3 and 120), which will display on the backlit LCD screen. The unit will sound a beep with each press of the buttons (holding the button speeds up the upward or downward value selection). Once the desired pressure has been entered, release the button and the flashing digital display will show the new selected pressure, as follows:
   The new selected value is now stored in the unit’s memory until it is manually reset.
4. Press the Compressor Power button once more to begin inflating. The Compressor icon will flash and the digital display will only show the current pressure value (which will light solid) to indicate the compressor is activated. Monitor the pressure on the LCD screen.
   IMPORTANT NOTE: To interrupt during inflation, press the Compressor Power button again.
5. When desired pre-set pressure is reached, the compressor will automatically stop.

6. Press the Compressor Power button again to turn off the unit.
7. Unscrew and remove the Sure Fit® nozzle from the valve stem.
8. Allow the unit to cool, then recharge before storing away.
9. Store the compressor hose and Sure Fit® nozzle in storage groove.

INFLATING OTHER INFLATABLES WITHOUT VALVE STEMS

Inflation of other items requires use of the nozzle adapter.

1. Screw the nozzle adapter into the Sure Fit® nozzle. Do not overtighten.
2. Insert the nozzle adapter into item to be inflated.
3. Follow steps 2 through 4 of the “Inflating Tires or Products With Valve Stems” section.
   IMPORTANT: Small items such as volleyballs, footballs, etc. inflate very rapidly. Keep this in mind when setting pressure. Take extra care not to over-inflate.
4. When the desired pressure is reached, the compressor will automatically stop.
   Press the Compressor Power Button again to turn off the unit.
5. Disconnect the adapter from the inflated item.
6. Unscrew and remove the nozzle adapter from the Sure Fit® nozzle.
7. Allow the unit to cool, then recharge before storing away.
8. Store the compressor hose and Sure Fit® nozzle in storage groove.

USB PORTS

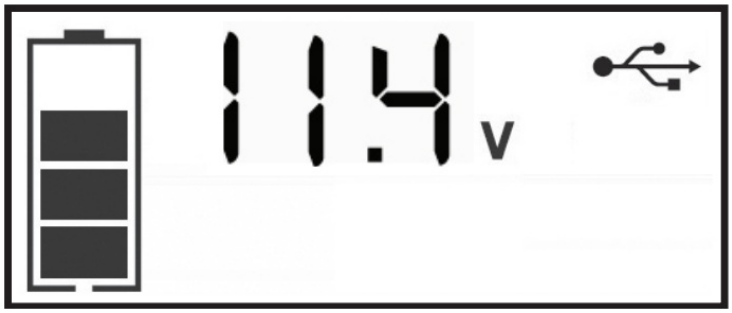
One USB-A and one Type-C USB port are located on the top of the unit. Refer to the “Features” section to locate.

IMPORTANT NOTES

1. The USB-A Port provides up to 15W. The USB-C Port provides up to PD 30W output (depends on the USB-C powered device connected). The total output is up to 15W when the USB-C and USB-A used simultaneously.
2. When the USB Ports are in use, the unit will monitor for the following USB fault conditions: low battery voltage fault, overload and short circuit. If low battery voltage fault occurs, the LCD screen will display the Battery Status Icon and the Voltage Icon for a short period of time before the unit shuts down automatically. In any of these cases, the USB Ports will automatically shut down. Should this occur:
   a. Disconnect the USB-powered devices immediately.
   b. Make sure the unit does not need to be recharged.
   c. Allow the unit to cool down for several minutes before attempting to use the USB Ports again.
   d. If an individual USB device is within specifications and the fault occurs, have the USB device checked for malfunction and do not continue to use it with these USB Ports.
3. This unit’s USB Ports do not support data communication. They only provide power to external USB-powered devices.
4. Some household USB-powered electronics will not operate with this unit.

USING THE USB-A POWER PORT

1. Plug a USB-A powered device to the USB-A port on the unit. The LCD screen will continuously display the following:



The Battery Status Icon and Battery Voltage Indicator will light solid, as well as the USB Icon. Operate the USB powered device normally.

2. Unplug the USB-A powered device from the USB-A port. The unit will turn off automatically after a short period.

USING THE USB-C POWER PORT

1. Connect a USB-C powered device to the USB-C Port, the LCD screen will show the following:
   The Battery Status Icon and Battery Voltage Indicator will light solid, as well as the USB Icon. Operate the USB powered device normally.

2. Unplug the USB-C powered device from the USB-C port. The unit will turn off automatically after a short period.
   Note: The USB-A power port and the USB-C power port can be used simultaneously.
   Periodically check the unit's battery status on the backlit LCD screen. Four solid bars in the battery icon indicates a full battery. When the battery level is nearly empty with only one solid bar or completely empty Battery Status icon, the unit must be recharged at this time or the unit's built-in low voltage protection will activate.
   If the battery of the unit overheats or is too cold, the USB will automatically shut down.

IMPORTANT: Make sure the USB Ports are turned off when the unit is being recharged or stored.

120 VOLT AC POWER OUTLET

RATED VERSUS ACTUAL CURRENT DRAW OF EQUIPMENT

Most electrical tools, appliances, electronic devices and audio/visual equipment have labels that indicate the power consumption in amps or watts. Be sure that the power consumption of the item to be operated is below 200 watts. If the power consumption is rated in amps AC, simply multiply by the AC volts (120) to determine the wattage.

Resistive loads are the easiest for this unit to run; however, it will not run larger resistive loads (such as electric stoves and heaters), which require far more wattage than the unit can deliver on a continuous basis. Inductive

loads (such as TVs and stereos) require more current to operate than do resistive loads of the same wattage rating.

POWER INVERTER OUTPUT WAVEFORM

The AC output waveform of this unit is known as a modified sine wave. It is a stepped waveform that has characteristics similar to the sine wave shape of utility power. This type of waveform is suitable for most AC loads, including linear and switching power supplies used in electronic equipment, transformers, and small motors.

PROTECTIVE FEATURES

The inverter monitors the following conditions:

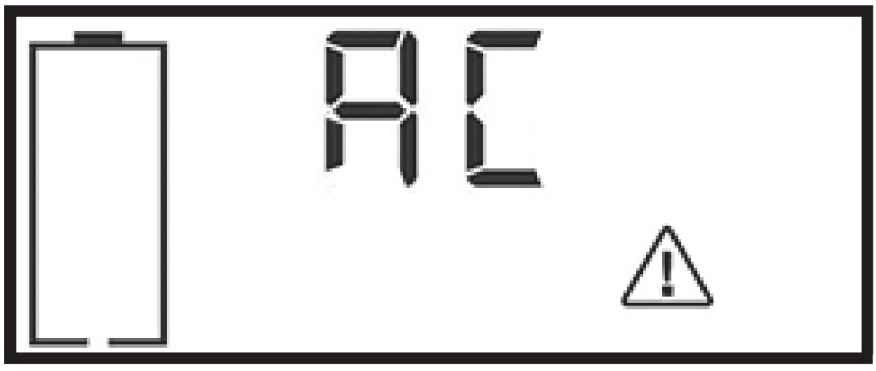
Low internal battery voltage	The inverter will automatically shut down when the batt ery voltage drops too low, as this can harm the battery.
Thermal shutdown protection	The inverter will automatically shut down when the unit becomes overheated.
Overload/short circuit protection	The inverter will automatically shut down when an over load or short circuit occurs.

IMPORTANT NOTES:

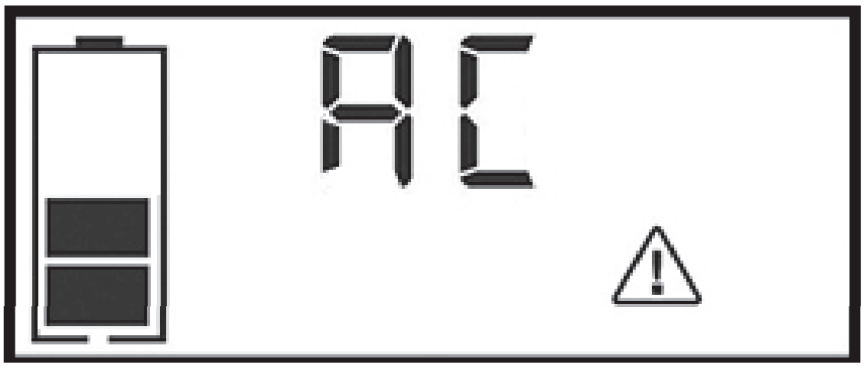
The AC Power Outlet provides a total power draw of 200W.

When the AC Power Outlet is in use, the unit will monitor for the following fault conditions: thermal fault, low battery voltage fault, overload and short circuit (refer to the “Protective Features” section).

1. If a low internal battery voltage fault condition exists, the AC Power Outlet will shut down automatically and the backlit LCD screen will display the following until the fault is corrected:



   The Digital Display will show the Battery Status Icon; the AC and Fault icon may flash.
2. If a thermal, overload or short circuit fault condition exists, the AC Power Outlet will shut down automatically and the backlit LCD screen will display the following:



The Battery Status Icon will light solid; the “AC” on the Digital Display and the Fault Icon on the LCD Screen will flash.

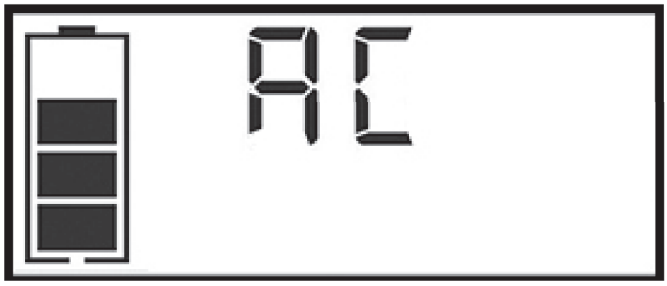
Should any of the above fault conditions occur:

1. Disconnect the appliance from the unit.
2. Press the AC Power Button to turn the AC Power Outlet off.
3. Make sure the unit does not need to be recharged.
4. Allow the unit to cool down for several minutes.
5. Make sure the rating of the appliance plugged into the unit is 200 watts or lower and that the appliance cord and plug are not damaged.
6. Assure there is adequate ventilation around the unit before proceeding.

USING THE 120 VOLT AC OUTLET

The 120 Volt AC Outlet is located on the front of the unit. The outlet supports a maximum power draw of 200 watts.

1. Press the AC Power Button to turn on the 120V AC Power Outlet. A beep will sound and the LCD Screen will display the following: until the fault is corrected:

   The Battery Status Icon lights solid and the Digital Display shows ”AC”, indicating the AC outlet is ready to use. Lift up the hinged AC cover exposing the 120 volt AC outlet.
2. Insert the 120 volt AC plug from the appliance into the 120 Volt AC Outlet.
3. Switch on the appliance and operate as usual.

   NOTE: Ensure that the wattage of the equipment plugged into the 120V AC Power Outlet does not exceed 200 watts continuous.
4. Press the AC Power Button again to turn off the 120V AC Power Outlet.

   Periodically check the unit’s battery status on the backlit LCD screen. Four solid bars in the Battery icon indicates a full battery. When the battery level is nearly empty with only one solid bar or completely empty

Battery Status icon, the unit must be recharged at this time or the unit's built-in low voltage protection will activate. If the battery of the unit overheats or is too cold, the inverter will automatically shut down.

IMPORTANT:

- Make sure the AC Power Outlet is turned off when the unit is being recharged or stored.
- The inverter will automatically shut down when the unit is switched to charging/recharging mode.

LED LIGHT

The built-in LED Area Light is controlled by the area light on/off button. Refer to the "Features" section to locate.

1. Press the Area Light Power Button once to turn the light on.
2. Press the Area Light Power Button again to turn the area light off.
   When the Area Light Power Button is pressed to turn it on, a beep will sound. The backlit LCD screen will turn on for 10 seconds (only) and will then continuously display the Battery Status Icon and the Battery Voltage Indicator.

Periodically check the unit's battery status on the backlit LCD screen. Four solid bars in the battery icon indicates a full battery. When the battery level is nearly empty with only one solid bar or completely empty Battery Status icon, the unit must be recharged at this time or the unit's built-in low voltage protection will activate. The empty Battery Status Icon will flash for a short period of time before automatic shut down.

IMPORTANT: Make sure the Area Light is turned off when the unit is being recharged or stored.

If the battery of the unit overheats or is too cold, the area light automatically shut down.

TROUBLESHOOTING

Problem	Possible Solution
Unit not charging	• Make sure all of the unit's functions are turned off. • Check the connection to the power source. • Confirm there is a functioning power source. • The unit may have shut down to protect the battery from overheating after a long period of operation or charging, or too cold (the ambient temperature has dropped below 0°C). Disconnect the USB charging cable from the unit and power source. Allow the unit to cool down or warm up for a period before resumi ng charging.

Engine fails to jumpstart	• Check that all the unit functions are all turned off. • Make sure a proper polarity cable connection has b een established and the Bi-Color Booster Status Ind icator on the Smart Cables Controller lights green. • The unit may be in over-current / over-time protectio n. Remove the clamps and restart after a cooling do wn period of approximately 30 minutes. • The unit may be overheated due to the excessive e ngine cranking. Make sure all the unit functions are t urned off and allow the unit to cool down before res uming operation. • The vehicle battery may in fault condition and cannot accept starting assistance. The manufacture r recommends taking it to a certified automotive ser vice center for evaluation. • Check that the unit has a full charge. Recharge the unit if necessary
Portable Compressor will not inflate	• Make sure the Compressor Power button has been pressed to turn the compressor on. • Make sure the unit is not being operated in the Jum p Starter mode. • Make sure the Sure Fit® nozzle is securely screwed on to the valve stem when attempting to inflate tires or that the nozzle adapter is securely screwed into t he Sure Fit® nozzle and is inserted properly into th e item to be inflated on all other inflatables. • The battery of the unit may overheats or is too cold. Allow the unit cools down or warm up before resumi ng operation. • Check that the unit has a full charge. Recharge unit if necessary.
LED Area Light does not come ON	• Make sure the LED Area Light Power button has be en pressed to turn on the area light. • The battery of the unit may overheats or is too cold. Allow the unit cools down or warm up before resumi ng operation. • Check that unit has a full charge. Recharge unit if n ecessary.

USB Power Port will not power appliance	• Make sure an USB-A powered device connected to USB-A port or an USB-C powered device connecte d to USB-C port. • A fault condition exists in one of the USB Ports. Ref er to the Important Notes in the “USB Ports” section to remedy any faults. • Make sure the USB device plugged into the USB-A port does not exceed 15W. The USB device plugge d into USB-C port does not exceed PD 30W or the t otal drained power of the USB-A port and USB-C p ort do not exceed 15W when they are used simultaneously. • Some USB-powered household electronics will not operate with this USB charging/power port. Check t he manual of the corresponding electronic device to confirm that it can be used with this type of USB ch arging/power port. • The battery of the unit may overheats or is too cold. Allow the unit cools down or warm up before resumi ng operation. • Check that the unit has a full charge. Recharge the unit if necessary
120 Volt AC outlet will not power appliance	• Make sure the AC Power Button has been pressed t o turn the AC outlet on. • Make sure you have followed all the steps in the “12 0 AC Power Outlet” section carefully. Refer to the i mportant notes included in that section that explain common problems and solutions. • Make sure the combined draw of the appliance bein g powered is not more than 200 watts. • The battery of the unit may overheats or is too cold. Allow the unit cools down or warm up before resumi ng operation. • Check that unit has a full charge. Recharge unit if n ecessary.

ACCESSORIES

Recommended accessories for use with your tool may be available from the manufacturer. If you need assistance regarding accessories, please contact the manufacturer at 855.806.9228

WARNING: The use of any accessory not recommended for use with this appliance could be hazardous.

SERVICE INFORMATION

Whether you need technical advice, repair, or genuine factory replacement parts, contact the manufacturer at 855.806.9228.

FULL ONE-YEAR HOME USE WARRANTY

The manufacturer warrants this product against defects in materials and workmanship for a period of ONE (1) YEAR from the date of retail purchase by the original end-user purchaser (“Warranty Period”).

If there is a defect and a valid claim is received within the Warranty Period, the defective product can be replaced or repaired in the following ways: (1) Return the product to the manufacturer for repair or replacement at manufacturer’s option.

Proof of purchase may be required by manufacturer. (2) Return the product to the retailer where product was purchased for an exchange (provided that the store is a participating retailer). Returns to retailer should be made within the time period of the retailer’s return policy for exchanges only (usually 30 to 90 days after the sale).

Proof of purchase may be required. Please check with the retailer for their specific return policy regarding returns that are beyond the time set for exchanges. This warranty does not apply to accessories, bulbs, fuses and batteries; defects resulting from normal wear and tear, accidents; damages sustained during shipping; alterations; unauthorized use or repair; neglect, misuse, abuse; and failure to follow instructions for care and maintenance for the product.

This warranty gives you, the original retail purchaser, specific legal rights and you may have other rights which vary from state to state or province to province. This product is not intended for commercial use.

Please visit www.baccusglobal.com/registration within 30 days of purchase of the product to register your product. Bacchus Global LLC, toll-free number 855.806.9228. The photos in this manual may differ from the actual unit.

APPENDIX

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.

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 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 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.

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

THIS CLASS B DIGITAL APPARATUS COMPLIES WITH CANADIAN ICES-003. CAN ICES-003(B) / NMB-003(B).

SPECIFICATIONS

Boost Ampere: 1750A Max.
Battery Type: Lithium polymer, 11.1V DC
Input: 5VDC 3A / 9VDC 3A / 12VDC 2.5A / 15VDC 2A / 20VDC 1.5A (PD 30W) or 5VDC 2A MAX.
Compressor: 120 PSI (max.)
USB-A Output: 5VDC / 9VDC / 12VDC, 15W MAX.
USB-C Output: 5VDC 3A / 9VDC 3A / 12VDC 2.5A / 15VDC 2A / 20VDC 1.5A (PD 30W MAX.)
USB-A and USB-C used simultaneously: 5VDC, 15W MAX. 120V AC Power Outlet: 120V AC, 60Hz, 200W

CARE AND MAINTENANCE

All batteries lose energy from self-discharge over time and more rapidly at higher temperatures. When the unit is not in use, we recommend that the battery is charged at least every three to six months.

From time to time wipe the outside of the appliance with a soft cloth. Do not immerse the appliance in water..

There are no user-replaceable parts. Periodically inspect the condition of adapters, connectors and wires. Contact manufacturer to replace any components that have become worn or broken.

BATTERY REPLACEMENT/DISPOSAL

Battery

Please be advised that the battery is designed to last the service life of the unit and is not replaceable, removable or serviceable. Service life is dependent on a number of factors including but not limited to the number of recharge cycles, and proper care and maintenance of the battery by the end user. Contact manufacturer for any information you may need.

SAFE BATTERY DISPOSAL

Contains a lithium battery, which must be disposed of properly. Recycling is required. Failure to comply with local, state and federal regulations can result in fines or imprisonment.

WARNING:

- Do not dispose of the battery in fire as this may result in an explosion.
- Before disposing of the battery, protect exposed terminals with heavy-duty electrical tape to prevent shorting (shorting can result in injury or fire).

- Do not expose battery to fire or intense heat as it may explode.

Sure Fit® is a registered trademark owned by Baccus Global, LLC. Imported by Bacchus Global LLC 621 NW 53rd

St., Suite 450, Boca Raton, FL 33487 www.Baccusglobal.com1.855.806.9228

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TECHNICAL SUPPORT PHONE NUMBER

855.806.9228 Made in China Baccus Global, LLC, 621 NW 53rd St., Suite 450, Boca Raton, FL 33487 www.Baccusglobal.com RD030723

IMPORTANT:

RETAIN FOR FUTURE REFERENCE: READ CAREFULLY.

CUSTOMER SUPPORT

QUESTIONS? CALL TECHNICAL SUPPORT
855.806.9228
SAVE THIS INSTRUCTION MANUAL FOR FUTURE REFERENCE

BOCA RATON, FL 33487 (877) 571-2391

Documents / Resources

	CAT 1671614 Cube Lithium 4 in 1 Portable Jump Starter [pdf] Instruction Manual 1671614 Cube Lithium 4 in 1 Portable Jump Starter, 1671614, Cube Lithium 4 in 1 Portable Jump Starter, 4 in 1 Portable Jump Starter, Portable Jump Starter, Jump Starter, Starter

References

- HOME | Baccus Global
- REGISTRATION | Baccus Global
- User Manual