

**PROFESSIONAL JUMP-STARTER**  
INSTRUCTION MANUAL



**CJ3000/CJ3000CA**

SAVE THIS MANUAL FOR FUTURE REFERENCE.



Intertek

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.

## ▲ GENERAL SAFETY WARNINGS AND INSTRUCTIONS

# READ ALL INSTRUCTIONS

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

# SAFETY GUIDELINES / DEFINITIONS

▲ **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.

# IMPORTANT SAFETY INSTRUCTIONS

▲ **WARNING:** This product or its power cord contains lead, a chemical known to the State of California to cause cancer and birth defect or other reproductive harm. Wash hands after handling.

## GENERAL INSTRUCTIONS PERTAINING TO A 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.
- **Use safety glasses and other safety equipment.** Use safety goggles or safety glasses with side shields, complying with applicable safety standards. Safety glasses or the like are available at extra cost at your local dealer.

- **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.** Watch what you are doing. Use common sense. Do not operate appliance when you are tired.
- **Check for damaged parts.** Any part that is damaged should be replaced by the manufacturer before further use.
- **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 use this unit to operate appliances that need more than 5 amps to operate from the 12 volt DC accessory outlet.**
- **Do not insert foreign objects into the 12 volt DC accessory outlet.**

## SPECIFIC SAFETY INSTRUCTIONS FOR CHARGING THIS UNIT

- **IMPORTANT:** This unit is delivered in a partially charged state. Fully charge unit with a household extension cord (not supplied) for a full 15 hours before using for the first time. You cannot overcharge the unit using the AC charging method.
- To recharge this unit, use only the built-in AC Charger or DC Charging Adapter (optional accessory).
- All ON/OFF switches should be in the OFF position 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.

### ▲ WARNING: SHOCK HAZARD

- **Outdoor use extension cords.** When appliance is used outdoors, use only extension cords intended for use outdoors and so marked.
- **Extension cords.** Make sure your extension cord is in good condition. When using an extension cord, 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 GAGE FOR CORD SETS			
		Total Length of Cord in Feet			
Volts					
120V		0-25 (0-7.6m)	26-50 (7.6-15.2m)	51-100 (15.2-30.4m)	101-150 (30.4-45.7m)
240V		0-50 (0-15.2m)	51-100 (15.2-30.4m)	101-200 (30.4-60.9m)	201-300 (60.9-91.4m)
Ampere Rating		Extension Cord Length			
More Than	Not more Than	0'-25'	26'-50'	51'-100'	101'-150'
		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:

- a) the pins of extension cord are the same number, size and shape as those in the charger,

- b) the extension cord is properly wired and in good electrical condition,
- c) the wire size is large enough for the AC rating of the charger.

**▲ CAUTION: TO REDUCE THE RISK OF INJURY OR PROPERTY DAMAGE:** Pull by the plug rather than the cord when disconnecting the extension cord from the built-in charging adapter or 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 A FROZEN BATTERY.**

- 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.
- 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.
- Have plenty of fresh water and soap nearby in case battery acid contacts skin.
- Never smoke or allow a spark or flame in the vicinity of a vehicle battery, engine or jump-starter.
- 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 when jump-starting a vehicle, friction can cause dangerous static-electrical sparks.
- 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.
  - a) 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 gauge metal part of the frame or engine block.
  - b) 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 gauge metal part of the frame or engine block.
- If the connections to the battery's positive and negative terminals are incorrect, the Reverse Polarity Indicator will light (red) and the unit will sound a continuous alarm until the clamps are disconnected. Disconnect clamps and reconnect to battery with correct polarity.
- 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 jump-starter on a watercraft. It is not qualified for marine applications.
- Although this unit contains a non-spillable 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.

### **▲ FIRST AID**

- **SKIN:** If battery acid contacts skin or clothing, wash immediately with soap and water for at least 10 minutes. 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.

# **SAVE THESE INSTRUCTIONS**

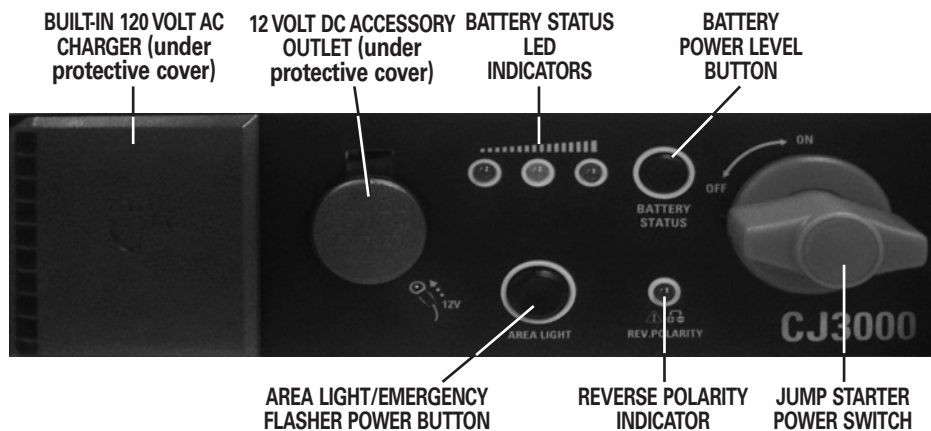
## **INTRODUCTION**

Congratulations on purchasing your new **Cat® Professional Jump Starter**. Read this Instruction Manual and follow the instructions carefully before using this unit.

## **Controls and Functions**







## CHARGING/RECHARGING

Lead-acid batteries require routine maintenance to ensure a full charge and long battery life. All batteries lose energy from self-discharge over time and more rapidly at higher temperatures. Therefore, batteries need periodic charging to replace energy lost through self-discharge. When the unit is not in frequent use, manufacturer recommends the battery be recharged at least every 30 days.

**Notes:** This unit is delivered in a partially charged state – you must fully charge it upon purchase and before using it for the first time. Initial AC charge should be for 15 hours.

Recharging the battery after each use will prolong battery life; frequent heavy discharges between recharges and/or overcharging will reduce battery life.

Make sure all other unit functions are turned off during recharging, as this can slow the recharging process.

In some rare cases, if the battery is overly discharged and the green LED lights immediately when the charger is plugged in, this indicates the battery is at a high impedance stage. If this occurs, recharge the unit for a period of 24-48 hours before use.

**▲ CAUTION: RISK OF PROPERTY DAMAGE:** Failure to keep the battery charged will cause permanent damage and result in poor jump starting performance.

### Charging/Recharging Using the 120 Volt AC Charger and a Standard Household Extension Cord (not included)

1. Open the AC adapter cover located on the front of the unit and connect an extension cord to the unit. Plug the other end of the cord into a standard 120-volt AC wall outlet.
2. Charge until the green LED Battery Status Indicator lights solid or flashes.
3. Once fully charged, disconnect the extension cord.

## JUMP-STARTER

This Jump-Starters is equipped with an On/Off Power Switch. Once the connections are properly made, turn the switch on to jump-start the vehicle.

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 the Jump-Starters Power Switch is turned to off.
3. Remove jumper clamps from clamp tabs.
4. **Procedure for jump-starting a NEGATIVE GROUNDED SYSTEM (negative battery terminal is connected to chassis) (MOST COMMON)**
  - 4a. Connect positive (+) red clamp to vehicle battery's positive terminal.
  - 4b. Connect negative (-) black clamp to chassis or a solid, non-moving, metal vehicle component or body part. Never clamp directly to negative battery terminal or moving part. Refer to the automobile owner's manual.
5. **Procedure for jump-starting POSITIVE GROUND SYSTEMS**

**Note:** In the rare event that the vehicle to be started has a Positive Grounded System (positive battery terminal is connected to chassis), replace steps 4a and 4b above with steps 5a and 5b, then proceed to step 6.

  - 5a. Connect negative (-) black clamp to vehicle battery's negative terminal.
  - 5b. Connect positive (+) red clamp to vehicle chassis or a solid, non-moving, metal vehicle component or body part. Never clamp directly to Positive battery terminal or moving part. Refer to the automobile owner's manual.
6. When clamps are connected properly, turn the Jump-Starters Power Switch to ON.
7. Turn ON the ignition and crank the engine in 5-6 second bursts until engine starts.
8. Turn the Jump-Starters Power Switch back to the OFF position.
9. Disconnect the negative (-) engine or chassis clamp first, then disconnect the positive (+) battery clamp.

### ▲ WARNING: TO REDUCE THE RISK OF INJURY OR PROPERTY DAMAGE:

- Follow all safety instructions found in the "Specific safety instructions for jump starters" section of this instruction manual.
- This power system is to be used ONLY on vehicles with 12-volt DC battery systems.
- Never touch red and black clamps together – this can cause dangerous sparks, power arcing, and/or explosion.
- After use, turn the Jump-Starters Power Switch off.

### ▲ CAUTION: TO REDUCE THE RISK OF PROPERTY DAMAGE:

- Vehicles that have on-board computerized systems may be damaged if vehicle battery is jump-started. Before jump-starting this type of vehicle, read the vehicle manual to confirm that external-starting assistance is advised.
- Excessive engine cranking can damage the vehicle's starter motor. If the engine fails to start after the recommended number of attempts, discontinue jump-start procedure and look for other problems that need to be corrected.
- If the connections to the battery's positive and negative terminals are incorrect, the Reverse Polarity Indicator will light (red) and the unit will sound a continuous alarm until the clamps are disconnected. Disconnect clamps and reconnect to battery with correct polarity.
- If vehicle fails to start, turn off the ignition, turn off the Jump-Starters Power Switch, disconnect the jump-start system's leads and contact a qualified technician to investigate why the engine did not start.
- Recharge this unit fully after each use.

## 12 VOLT DC PORTABLE POWER SUPPLY

This portable power source is for use with all 12 volt DC accessories equipped with a male accessory outlet plug and are rated up to 5 amps.

1. Lift up the cover of the unit's 12 volt DC outlet.
2. Insert the 12 volt DC plug from the appliance into the 12 volt accessory outlet on the unit. DO NOT EXCEED A 5 AMP LOAD.
3. Switch on the appliance and operate as usual.
4. Periodically press the battery power level pushbutton to check battery status. (When all three battery status LEDs light, it indicates a full battery. Only one red battery status indicator light indicates that the unit needs to be recharged.)

## LED AREA LIGHT/LED EMERGENCY FLASHER

The built-in white area light and red LED emergency flasher are controlled by the area light power button. Refer to the "Controls and Functions" section to locate.

1. Press the area light power button once to turn on the white 3-LED area light.
2. Press the area light power button again to turn on the 3-LED red emergency flasher.
3. Press the area light power button a third time to turn all lights off.

Make sure all the lights are turned off when the unit is being recharged or stored. Periodically check the unit's battery status by pressing the Battery Power Level Button. (All the three battery status LED indicators light indicate a full battery. Only one Red battery status indicator lights indicates that the unit needs to be recharged.)

### 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 30 days.

Never submerge this unit in water. If the unit gets dirty, gently clean the outer surfaces of the unit with a soft cloth moistened with a mild solution of water and detergent.

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 REPLACEMENT

The battery should last the service life of the unit. 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 maintenance-free, sealed, non-spillable, lead acid battery, which must be disposed of properly. Recycling is required, contact your local authority for information. Failure to comply with local, state and federal regulations can result in fines, or imprisonment.

Contact your local waste management authority to dispose of this product.

#### ▲ WARNINGS:

- 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.



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

### TROUBLESHOOTING

Problem	Solution
<b>Unit will not charge</b>	<ul style="list-style-type: none"> <li>• Make sure the jump-starter power switch is in the off position.</li> <li>• Make sure a suitable gage extension cord is properly connected to both the unit and a functioning AC outlet.</li> </ul>
<b>Unit fails to jump-start</b>	<ul style="list-style-type: none"> <li>• Make sure unit's power switch is in the on position.</li> <li>• Check that jump-starter has a full charge. Recharge unit if necessary.</li> <li>• Make sure a proper polarity cable connection has been established.</li> </ul>
<b>12 volt DC portable power supply will not power appliance</b>	<ul style="list-style-type: none"> <li>• Make sure the appliance does not draw more than 5 amps.</li> <li>• Check that the unit has a full charge. Recharge unit if necessary.</li> </ul>
<b>LED area lights/ LED emergency flasher do not come on</b>	<ul style="list-style-type: none"> <li>• Make sure the area light power button is in the on position</li> <li>• Check that the unit has a full charge. Recharge the unit if necessary.</li> </ul>