



**Chicago
Pneumatic**

Operator's Manual

CP90600

**BATTERYLESS JUMP STARTER
ULTRA CAPACITOR**



WARNING

To reduce risk of injury, everyone using, installing, repairing, maintaining, changing accessories on, or working near this tool must read and understand these instructions before performing any such task.

SAFETY INSTRUCTIONS

• DO NOT DISCARD - GIVE TO USER

- Always use eye protection during operation.
- **WARNING!** Use of accessories or an attachment not recommended or sold by the Batteryless Jump Starter's manufacturer may result in personal injury and/or damage to the device.
- Always carefully handle the Jumper cables and use the plugs to connect and disconnect the automatic adaptor charger. Never pull on the cables.
- Do not recharge the Batteryless Supercap Start Booster with a damaged plug or cord.
- The Batteryless Jump Starter may be used in all weather conditions. However, never allow the device to become heavily covered, soaked or submerged in water. Do not charge the device in a wet environment. Never attempt to charge or boost a frozen battery.
- Never allow the positive (red) and negative (black) clamps to contact each other or allow them to contact the same piece of metal or post. Always avoid any short circuit.
- Do not operate the Device in an explosive environment or near sparks, flames and flammables such as gasoline etc.
- Never smoke while operating the Device or near any vehicle battery.
- Do not attempt to repair a damaged Batteryless Supercap Start Booster by yourself. Always have repairs performed by the manufacturer or an authorized agent. (such attempts will void warranty)
- Read owner's manual entirely carefully. Please also read your vehicle's user manual to make sure there are no specific precautions you should be aware of.
- Please wear safety equipment, including safety glasses and gloves. Car batteries produce explosive gases that can cause damages.
- Use only in a well-ventilated area.
- Do not disassemble Batteryless Jump Starter. Take it to a qualified service professional or designated service center for control. Incorrect assembly may result in fire or electrical shock.
- Keep out of reach of children. Not to be used by children or persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the Batteryless Supercap Start Booster.
- Do not use or recharge the Batteryless Supercap Start Booster if damaged. Take it to a qualified person for inspection and repair.
- The Batteryless Jump Starter is not designed to be installed as a replacement for a vehicle battery.
- Make sure jump started vehicle is in park position and the emergency brake is engaged.
- Do not turn on any electronics before jump starting and make sure the ignition key is in the "OFF" position.
- Wear eye glassed and protective clothing when working near lead-acid batteries.
- Never smoke or allow a spark or flame in the vicinity of the battery or engine.
- **IMPORTANT:** It is totally maintenance free! Even though we strongly recommend that when the Batteryless Supercap Start Booster not in use, recharge it at a minimum of every 90 days with the supplied automatic charger adaptor. However, when not in use it is strongly recommended to always keep it connected to the supplied automatic charger adaptor always ready to be used anytime!
- **WARNING:** Working in the vicinity of a lead acid battery is dangerous. Batteries generate explosive gases during normal battery operation. Misuse or not properly following the operator's instructions is very dangerous and may result in an explosion, personal injury and/or severe damage to a vehicle or the Device. Read the operator's instructions thoroughly and take these precautions when operating the Batteryless Jump Starter: :
- Pay attention that the terminal voltage of the Batteryless Jump Starter corresponds with the data of the vehicle battery or batteries. Use this device with proper cranking amperage and capacity for the application. Non-adherence to this may result in damage to vehicle electronics, damage to the unit and may increase the risk of a dangerous explosion.
- Pay attention to any potential moving parts in a vehicle engine compartment. Always keep the Batteryless Jump Starter and yourself clear of any potential moving parts and position the device in a stable location while starting a vehicle.
- After starting a vehicle, DO NOT leave the Batteryless Jump Starter connected for more than 2 minutes with runner engine.
- **Danger! Risk of explosion!** Always disconnect the clamps one at a time starting with the negative and then the positive. Then turn the 12V OFF 24V main switch to OFF position.
- To avoid any short-circuit of current and to protect the clamps, positive (red) and negative (black) clamps must always be stored in the specially designed holders when not in use. Use the cable holders to store the cable neatly on the unit.
- Have your Batteryless Jump Starter safety inspected by an authorized agent of the manufacturer. (every 2 years).



TECHNICAL DATA

Model	Voltage	Amp. Max	starting Current	Capacitor life	Full Charging Time	Weight
CP90600	12 V 24 V	1600 A peak 8 000 A peak	4000 A 2000 A	1 000 000 cycles	30 sec. By running engine 6-7 Hours by AC adaptor	17 kg

MACHINE TYPE(S)

- This product is designed to help to start vehicle engine in case of emergency. No other use permitted. For professional use only.
- Please read the instructions carefully before starting the machine.

OPERATION

The Batteryless Jump Starter relies on the instant recharging of supercapacitors rather than stored electric energy like batteries. Therefore, it can be stored for years without regular recharges. It's totally maintenance free!

CAUTION: Before first use make sure to charge the Batteryless Jump Starter with the supplied automatic charger adaptor for at least 8 hours.

Checking the power level of the Batteryless Jump Starter

- Switch the 12V OFF 24V switch to the 12V OR 24V position and Press the yellow test button for 2-5 seconds. The power level will be displayed with digits.
- Make sure the unit is fully charged before using it (the 5 LEDs lights must be on).
- If the voltage level lit until the yellow led light, or the digital voltmeter shows below than 13.5V on 12V position and 26V for 24V position, the Device should be recharged before use.

Charging the Batteryless Jump Starter with the automatic charger adaptor

- Make sure the clamps are secure in their respective designated holders before charging.
- Make sure the charger adaptor and Batteryless Jump Starter are placed in a well-ventilated, dry, non-flammable area during charge.
- Plug the supplied charger adaptor into the AC power outlet and then into the DC JACK socket on the Batteryless Start Booste . Switch the 12V OFF 24V main switch to the "12V" position.
- The charger included with your device is fully automatic and may be left on and connected when the Batteryless Jump Starter is fully charged.

To keep the Batteryless Jump Starter ready to use, recharge it at least every 90 days with the supplied automatic charger adaptor. However, when not in use it is strongly recommended to always keep it connected to the supplied automatic charger adaptor to be used anytime.

Charging the Batteryless Jump Starter through the clamps with a running vehicle

Note: Charging with a running vehicle requires much shorter time than charging with the automatic charger adaptor.

Caution: Charging with a running vehicle is not automatic and requires the operator to manually observe the charging of the Batteryless Jump Starter and the power level status. Always make sure the vehicle is running and never leave the Batteryless Jump Starter connected for long time and charging unattended.

Caution : Make sure to connect a 12V model to a 12V battery or vehicle, and 24V model to a 24V charging method.

1. Make sure the vehicle ignition is in the "OFF" position.
2. Make sure the main switch of the Batteryless Jump Starter is on the "OFF" position
3. Connect first the positive (red) clamp to the positive terminal of the battery
4. Then connect the negative (black) clamp to the negative terminal of the battery, or to the block of the engine or to the frame of the vehicle (ground)
5. Make sure the device is stable and the cables are not in the path of moving belts, fans, etc...
6. Make sure the reverse polarity alarm is not making a loud noise and blinking.
7. Once the clamps are positioned correctly, start the vehicle
8. Turn the main switch to the "ON" position

The Batteryless Jump Starter will charge automatically within a few seconds.

Caution : DO NOT leave it connected for more than 2 minutes.

To check the power level status, press the yellow test button for 2-5 seconds.

9. When the Batteryless Jump Starter is charged, turn the main switch to "OFF" position.
10. Always disconnect the clamps one at a time starting with the negative (black) and then the positive (red).
11. Store both clamps in their respective designated holders.

Charging the Batteryless Jump Starter through a fully charged external battery

- Recharge by external battery, connect the two clamps of the batteryless booster on almost any charged battery of the same voltage and switch the CAM switch either 12V OR 24V position based on Vehicle voltage!
- Make sure it is switch n the correct voltage after connecting the clamps correctly. This charging method is applied to only recharging by external battery and by running vehicle engine.

Jump starting a 12V vehicle and charging the Batteryless Jump Starter

Caution: Make sure to use this 12V Batteryless Jump Starter with a 12V battery or vehicle.

1. Make sure the vehicle ignition is in the "OFF" position
2. Turn off all electronics in the vehicle (air conditioning, radio, lights, etc.)
3. Make sure the Batteryless Jump Starter is fully charged and the 12V/24V cam switch is on the "OFF" position
4. Connect first the positive clamp (red) to the positive terminal of the battery
5. Then connect the negative (black) clamp to the negative terminal of the battery, or to the block of the engine or to the frame of the vehicle (ground)
6. Make sure the device is stable and the cables are not in the path of moving belts, fans, etc...
7. Make sure the reverse polarity alarm is not making a loud noise and blinking
8. Once the clamps are positioned correctly, switch the Cam Switch to 12V or 24V position
9. Stay clear off the device and the vehicle battery. Attempt to start the vehicle

Caution: Should the vehicle refuse to start within 3-10 seconds, have the Batteryless Jump Starter cool down a minimum of 3 minutes before you attempt to start the vehicle again.

WARNING! OVERUSE MAY INCREASE THE RISK OF AN EXPLOSION, PERSONAL INJURY OR SEVERE DAMAGE TO THE UNIT. ATTEMPTS TO START ALWAYS HAVE TO BE VERY SHORT.

10. Once the vehicle is started, the Batteryless Jump Starter will charge automatically.

Caution : DO NOT leave it connected for more than 2 minutes.

11. When the Batteryless Jump Starter is charged, turn the main switch to "OFF" position.
12. Always disconnect the clamps one at a time starting with the negative (black) and then the positive (red).
13. Store both clamps in their respective designated holders.

TROUBLE SHOOTING

Problem	Solution & Action
When the test button is pressed on the Batteryless Jump Starter, the voltage is below 12.6V, the charger has been plugged in for over 12 hours and there is no change in status of the voltage reading on the digital voltmeter.	Make sure the Batteryless Supercap Start Booster / Batteryless Procap On/Off switch is "On". OR select correct voltage! Check if the charger is charging. The charger should be warm and it also has charge status LEDs.
The charger works well but the Batteryless Jump Starter is not charging.	There is possibility of a defective supercapacitor or faulty circuit breaker. Test the circuit breaker. Try using a device (for example a 12V light) through the cigar lighter socket. Should it work, the circuit breaker is OK and the Supercapacitor is likely the problem. If there is a suspected problem with the supercapacitor, have the Batteryless Jump Starter inspected by an authorized agent of the manufacturer.
The Batteryless Jump Starter is fully charged but will not start an engine.	It is possible there is a defective vehicle battery. Check the clamp connections and make sure vehicle terminals are clean and free of any corrosion. Make sure the connections with the red voltage selection connector, cables and clamps are correct and not damaged.
I have charged the Batteryless Jump Starter. When testing the unit, no LEDs light.	Make sure the voltage selection connector is plugged or turned into 12V before testing the unit. It is possible there is a deeply discharged or damaged Supercapacitor inside the unit. Possible damaged LED circuit. Have an authorized agent of the manufacturer inspect the unit.
When trying to use an accessory through the 12V cigar lighter socket on the Batteryless Jump Starter, I hear a clicking sound from the unit.	The accessory may be drawing too many amps or the accessory may have a problem such as a short circuit. Make sure the accessory you are attempting to use does not draw too much current or, if it may be damaged or defective, do not use the accessory. Have any potentially damaged or defective accessory inspected by a certified electronic technician for the accessory manufacturer.

FREQUENTLY ASKED QUESTIONS & ANSWERS

Question	Answer
Can the Supercapacitor of the be replaced?	Yes. Contact your nearest distributor for replacement of the Capacitors.
I have a regular 10amp battery charger. Can I use it to charge a Batteryless Jump Starter?	Yes, but strongly recommended to use the originally supplied fully automatic charger.
How many jump starts can a fully charged Batteryless Jump Starter do before needing to be recharged?	1 to 100, depending on: temperature, general condition of the vehicle, engine type and size.
What is the ideal temperature of the Batteryless Jump Starter?	Room temperature would be the best. The Batteryless Jump Starter could be also operated at wide temperature range below-40C° + 45C°; however, in cold temperature the power will be a bit less. Never attempt to charge or boost a frozen battery. Intense heat will activate self-discharge of the battery.

DISPOSAL

- The disposal of this equipment must follow the legislation of the respective country.
- All damaged, badly worn or improperly functioning devices **MUST BE TAKEN OUT OF OPERATION.**
- **Repair only by technical maintenance staff.**



Do not dispose of electric tools together with household waste material!

According to Directive 2012/19/EU concerning Waste Electrical and Electronic Equipment (WEEE), this product must be recycled. Please contact your „Customer Centre“ or consult the website „www.cp.com“ to find out where you can recycle this product.

EU DECLARATION OF CONFORMITY

We : **Chicago Pneumatic Tool Co. LLC 1815 Clubhouse Road, Rock Hill, SC 29730 - USA**

Machine type(s): **Batteryless Jump Starter**

Declare under our sole responsibility that the product(s): **CP90600** Serial Number: **00001 - 99999**

Origin of the product : **Switzerland**

is in conformity with the requirements of the council Directives on the approximation of the laws of the Member States relating : to "Machinery" "Low voltage" **2014/35/EU, (LVD), 2014/30/EU (EMC) & RoHS 2011/65/EU**

applicable harmonised standard(s) :

EN 60335-2-29:2004 /A2:2010, EN 55014-2:1997+A1:2001, A2:2008, EN 60335-1: 2002/A15: 2011 + A11:2014

EN 61000-6-1:2007, EN 55014-1:2006/A1:2009, EN 61000-6-3:2007 + /A1:2011, EN62233

Name and position of issuer : **Pascal Roussy (R&D Manager)**

Place & Date : Saint-Herblain, 10/2017

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Original Instructions