TROUBLESHOOTING

PROBLEM	SOLUTION
The battery charger cannot complete the charge.	Supercapacitors could be defective or the battery charger might be faulty. Please ask your Supplier for assistance.
The jump starter works perfectly, but the LED bar does not light up.	The LED bar button might be damaged. Please verify with a voltmeter on the jump starter's clamps the battery voltage / state of charge.
The device is fully charged but it doesn't work.	Make sure the cables and clamps of the jump starters are intact and that they are well connected to the poles of the vehicle battery. Check that the protection fuse on the red clamp is not damaged, and that the safety switch on the black clamp is released (ON position). The vehicle battery may be faulty.

F.A.Q.

QUESTION	ANSWER
Is it possible to replace the jump starters' supercapacitors?	Please ask your Dealer for information.
Can I use another battery charger to recharge the device?	No, use only the provided battery charger.
The jump starter is a fragile product?	Yes, just like all electronic devices it is necessary to follow all instructions carefully.

TECHNICAL DATA & CONTACTS

Voltage	12 Volt
Current	4500 A
Cables Section	25 mm2
Cables Length	120 cm
Dimensions	275 x 145 x 330 mm
Weight	4.4 Kg
Charging Time with 12V Battery	Max 2 minutes
Charging Time with Charger	Max 5 hours
Operating Temperature	-40°C - +50°C

BC BATTERY CONTROLLER™
CHARGING YOUR PASSION

BC BATTERY CONTROLLER
CISLIANO (MI) – ITALY
info@batterycontroller.it

BC JUMPSTARTER SUPERCAP BATTERYLESS 12V-4500A USER'S MANUAL

1. LED bar button
2. LED bar showing the state of charge
3. Socket for charging the jump starter
4. Rail for cable winding
5. Support for clamps
6. Fuse on red clamp
7. Safety switch on black clamp

CONGRATULATIONS:
Thank you for purchasing BC JUMPSTARTER SUPERCAP BATTERYLESS 12V-4500A, the emergency jump starter with supercapacitor technology. Please always follow the basic principles and precautions necessary when working near a 12V battery, read all the instructions carefully and keep this user manual for reference. The device is designed exclusively for starting 12V vehicles with a maximum capacity of 10000cc.
IMPORTANT NOTE: BEFORE FIRST USE, RECHARGE THE STARTER COMPLETELY WITH THE CHARGER SUPPLIED.

1 – SAFETY INSTRUCTIONS

1. Keep out of reach of children or persons with reduced physical/mental abilities or lack of experience, unless under the supervision of a responsible person. The product is not a toy.
2. Wear protective goggles and gloves during each use.
3. Use only the accessories supplied and recommended by the manufacturer, to avoid any risk of damage to the product and to things or people in the vicinity of the product.
4. Never pull the supplied charger cables, even when disconnecting the plug from the socket.
5. Do not charge the appliance with damaged accessories. In the event of damage or failure of the supplied charger, request repair or replacement from the dealer.
6. The starter can be used in any weather conditions (rain, snow, hot or cold weather). Do not recharge in a damp environment. Do not attempt to start a frozen battery. Do not immerse the booster in water or liquids, do not expose to splashes.
7. Never put the red clamp in contact with the black clamp and do not place the two clamps in contact with the same metal object, to avoid any risk of a short circuit.
8. To avoid any risk of short circuit and to protect the positive (red) and negative (black) clamps, always hook the clamps to their supports when not in use. The appliance is equipped with lateral rails for winding the cables.
9. Do not expose the device to flames or sources of heat. Do not smoke when using it. Do not use in the presence of flammable or explosive liquids, gases or dust. Use in ventilated environments.

10. In the event of faults or failures, do not attempt to repair the jump starter, but always contact your dealer. Any tampering or attempted repair in autonomy will result in the invalidity of the warranty.
11. Never allow the jump starter to discharge completely and charge it periodically. Damages caused by a deep discharge may be irreversible.

Recharge before use, it's not necessary to keep the starter always in charge. The charge takes less than 5 hours from battery charger, less than 2 minutes from 12 Volt battery.

2 - GENERAL FEATURES

1. BC JUMPSTARTER SUPERCAP BATTERYLESS 12V-4500A is a batteryless jump starter, provided with supercapacitors. It can be placed and used in any position and it is superlight, with a weight of only 4.4 kg.
2. Supercapacitors allow to use the device even at very low temperatures (up to -40°C) and a life span of one million cycles, while maintaining performance from first to last use.
3. The clamps are completely insulated and the copper cables are super flexible. The cable section is 25 mm2 and 120 cm long, for maximum comfort.
4. The red clamp has an easily replaceable protection fuse. On the black clamp there is an ON/OFF safety switch.
5. The jump starter is equipped with a battery charger for charging the unit from a normal power supply and with a LED bar to monitor the charge status of the internal battery, from 20% to 100%, by pushing the LED bar button.

3 - INDICATION OF THE STATE OF CHARGE

1. To check the of charge of the jump starter, press the LED bar button. Do not use the product when 3 LEDs or less are on, but first recharge it completely, following the instructions given in step 4 of the manual.

4 - RECHARGING THE JUMP STARTER WITH BATTERY CHARGER

1. The jump starter kit includes an automatic battery charger. To recharge the jump starter, simply connect the battery charger to the power outlet and to the jump starter socket. Recharge the jump starter in a ventilated environment.
2. When all five LEDs of the jump starter indicator light up (by pressing the yellow button), charging is complete. In case of need, the starter can still be disconnected from the charger at any time.
3. To recharge the jump starter through the clamps after starting a vehicle, before disconnecting the appliance, wait a maximum of 2 minutes with the engine running, so that the alternator can recharge the jump starter's battery. The jump starter is equipped with an ON/OFF safety switch on the black clamp: to allow current to pass, unhook the safety switch (ON position). To stop the current passage, hook the safety switch (OFF position). If the protective fuse on the red clamp is damaged, there will be no current flow and the starter will not be recharged by the alternator.

5 - RECHARGING THE JUMP STARTER WITH AN EXTERNAL 12V BATTERY

If you do not have the possibility to recharge the jump starter through the supplied charger, you can charge the supercapacitor of the booster with an external 12V battery in good conditions. Simply connect the booster clamps to the terminals of a 12V charged battery.
Charging in this mode takes a few minutes. However, a complete recharge is recommended with the supplied charger as soon as possible..

IMPORTANT: The jump starter is equipped with an ON/OFF safety switch on the black clamp: to allow current to pass, unhook the safety switch (ON position). To stop the current passage, hook the safety switch (OFF position). If the protective fuse on the red clamp is damaged, there will be no current flow and the starter will not be recharged by the external battery.

6 - OPERATING INSTRUCTIONS - EMERGENCY JUMP STARTING

Before jump starting the vehicle, please check that the vehicle is in neutral with the handbrake on and the ignition key in OFF position. Read the vehicle's manual and follow all safety instructions. Make sure that all loads (lights, radio, air conditioning ...) are switched off, that the fuse on the red clamp is not damaged and that the safety switch on the black clamp is locked (OFF position).

1. First connect the red (positive) clamp to the positive pole of the vehicle battery.
2. Next, connect the black (negative) clamp to the negative pole of the vehicle's battery or to ground to the vehicle frame, away from the battery and the fuel line. Pay attention to moving parts such as fan, straps, etc.
3. Unhook the safety switch on the black clamp (ON position), to allow the passage of current.
4. Move away from the battery and the jump starter when it starts running and make sure it is in a stable position so that the engine vibrations following the jumpstart do not cause it to fall. The length of cables is enough in most cases to position the starter on the ground.
5. Once the vehicle is started, do not leave the jump starter connected to the vehicle for more than 2 minutes. Hook the safety switch on the black clamp (OFF position), then first disconnect the black clamp (negative) and then the red clamp (positive).
6. Reposition both clamps immediately on their respective supports.

IMPORTANT: If the vehicle does not start within 10 seconds, do not insist. In presence of a faulty battery, this could reject the jump starter's charge. This could be the reason why the vehicle does not start.

WARNING: A too intensive use and / or failure to comply with safety regulations may increase the risk of explosion and damage to the unit and to nearby persons and objects. Every attempt to jumpstart must be short and not insisted. Use only for 12V vehicles with a maximum capacity of 10000cc.

7 - WARRANTY

Forelettronica Srl offers a 2-years limited warranty on the jump starter for faults or malfunctions due to materials or manufacturing. Parts whose deterioration is attributable to use are considered excluded from the guarantee. The warranty is void in case of improper use or tampering of any kind or repair carried out by an unauthorized technician. This warranty is limited to the original purchaser: it is not transferable to third parties.
The warranty excludes implicit forms of warranty, including guarantees for damage caused as a result of use of the device: Forelettronica Srl is deemed exonerated from any damage to persons or property from the use of its products. The shipping costs for returning the defective device are the responsibility of the purchaser.

The packaging of the product is recyclable. Do not dispose of electrical appliances or batteries in household waste, but follow current regulations. Supercapacitors are part of the RoHS directive for electrical equipment.