



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.



### TROUBLESHOOTING

PROBLEM	SOLUTION
The charger is connected to power outlet and jump starter's 12V socket, but the charger's red LED blinks slowly (Error: battery not connected).	Verify that the jump starter's 12V socket is working, by connecting whatever 12V device (for example, a 12V lamp).
The battery charger cannot complete the charge.	The jump starter's battery or supercapacitors might be defective or the battery charger might be damaged. Please try recharging another 12V battery with the battery charger to verify whether the same problem occurs.
The battery charger works perfectly and it completes the charge, but no LED on the jump starter turns on.	The LED bar button might be damaged. Please verify with a voltmeter on the jump starter's clamps the battery voltage / state of charge..
No LED on the jump starter turns on, but when the battery charger is connected all LED on the jump starter turn on.	The internal battery is defective. To avoid damages to the battery, always let it cool down for 3 minutes between the attempts to jump start a vehicle (see instructions point 4).
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. The vehicle's battery might be defective.
When a 12V accessory gets connected to the 12V socket, a strange noise is heard.	The 12V adapter of the connected device could be defective, causing the switch to interrupt. The 12V device could require too much current.

### F.A.Q.

QUESTION	ANSWER
How many jumpstarts can be done before to recharge the jump starter?	1 to 30 jumpstarts, according to the temperature, the vehicle's conditions, the engine type and capacity.
Is it possible to replace the battery or the jump starter's supercapacitors?	Please ask your Dealer for information.
Which is the best storing temperature and operating temperature?	Ambient temperature. The jump starter works between -25°C and +40°C, but it can lose power below 0°C. High temperatures bring to a faster discharge.
Can I use another battery charger to recharge the device?	No, use only the provided battery charger BC SMART 2000.
The jump starter is a fragile product?	Yes, it is necessary to follow all instructions carefully.

### TECHNICAL DATA & CONTACTS

Voltage	12 Volt
Peak Current (PA)	3200 A
Cranking Current (CA)	1200 A
Battery Capacity	12V 12 Ah
Cables Section	25 mm <sup>2</sup>
Cables Length	120 cm
Embedded 12V Socket	15 A
Dimensions	275 x 145 x 330 mm
Weight	6.4 Kg



**BC BATTERY CONTROLLER**  
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## BC JUMPSTARTER SUPERCAP HYBRID 12V-3200A USER'S MANUAL



1. LED bar button
2. LED bar showing the state of charge
3. 12V 15A Socket
4. Rail for cable winding
5. Support for clamps

### CONGRATULATIONS:

Thank you for purchasing BC JUMPSTARTER SUPERCAP HYBRID 12V-3200A, provided with a sealed AGM battery and 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 BC SMART 2000 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.

**IMPORTANT: when the jump starter is not used, we recommend to keep it always connected to the provided charger, or at least to recharge it once every 3 months.**

## **2 - GENERAL FEATURES**

1. Battery type: 12V 12Ah AGM (Absorbed Glass Mat) sealed lead battery, according to IATA safety norms. The AGM sealed battery allows to place and use the jump starter in whatever position.
2. The clamps are completely insulated and the copper cables are super flexible. The cable section is 25 mm<sup>2</sup> and 120 cm long, for maximum comfort.
3. The included battery charger BC SMART 2000 is provided with a microprocessor and an automatic 8-steps charging algorithm. It can stay always connected to the jump starter with no risk of damages and it can be used also for the care of other 12V batteries.
4. The embedded 12V 15A socket can be used both for charging the jump starter and as a current output to recharge external 12V devices.
5. The jump starter is provided with a LED bar with a button, to check the internal battery state of charge (from 20% to 100%).
6. Protection against voltage peaks.

## **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.
2. When the jump starter is connected to the battery charger BC SMART 2000, the number of LEDs lit on the jump starter and the battery charger may differ. Please refer always to the LED indicator of the battery charger.

## **4 - RECHARGING THE JUMP STARTER WITH BATTERY CHARGER**

1. The jump starter's kit includes the battery charger BC SMART 2000, completely automatic with 8 charging steps. To recharge the jump starter it is enough to connect the battery charger to power outlet and to the 12V socket of the jump starter, using the provided 12V adapter. Please recharge in a ventilated environment.
2. The green "CHARGE" LED of the battery charger blinks slowly during recovery and charging, it blink fast during desulfation and it is steadily on during maintenance. The device switches automatically from one step to the following one. For detailed information about the charging algorithm and the charger's operation, please refer to the manual of the charger itself.
3. When all LEDs (one yellow and three green) on the charger's LED voltmeter are on, the jump starter is ready to use. However, it is recommended if possible to complete the desulfation cycle and to wait for the green LED to be steadily on. In any case, the jump starter can be disconnected from the battery charger in any moment while charging.
4. 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.

**Please keep in mind that it is recommended to keep the jump starter connected with the battery charger BC SMART 2000 when it is not used!**

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

If the battery of the jump starter is discharged and there is no chance to recharge it, the jump starter's supercapacitors can be recharged through a 12V battery in good conditions. Just connect the jump starter's clamps to the terminals of a charged 12V battery.

Charging in this mode takes a few minutes. However, a complete recharge is recommended with the supplied charger as soon as possible.

## **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.

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. 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.
4. Once the vehicle is started, do not leave jump starter connected to vehicle for more than 2 minutes. Disconnect the black clamp (negative) first and then the red clamp (positive).
5. Reposition both clamps immediately on their respective supports.
6. Put the device in charge with the provided battery charger BC SMART 2000.

**IMPORTANT:** If the vehicle does not start within 10 seconds, do not insist. Let the jump starter's battery cool down for 3 minutes before to try again. Otherwise, the internal battery could be irreversibly damaged (jump starting attempts have to be very short). 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 - OPERATING INSTRUCTIONS – 12V SOCKET**

The jump starter's 12V socket can be used as a portable power supply for all 12VDC devices provided with a cigar socket adapter. The 12V socket is provided with an automatic overload protection. Moreover, the socket can be used as a memory saver to supply a car's on board devices, when it's necessary to disconnect the battery for replacement or for maintenance operations. BC accessories range includes the adapter OBD Memory Saver (part number 710-OBDSMS) to connect the jump starter's 12V socket directly with a car's OBD socket.

## **8 - 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.