



NOCO Boost Plus GB40 Manual: How to Use Lithium Jump Starter

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The NOCO GB40 Boost Jumper Lithium Jump Starter is a powerful device that can help jump-start your vehicle's dead battery. However, it is important to understand the safety instructions before using this product. The user guide contains critical safety information that must be read and understood before operating the device. Failure to follow the safety instructions may result in serious injury, death, or property damage. The product is an electrical device that can cause electrical shock, explosion, and fire if not used properly. It emits heat and can cause burns, so it is important to wear eye protection and protective clothing when operating the device. The user guide also provides information on handling, storage, battery charging, and compatibility. It is essential to use the product only for its intended purposes and with NOCO-approved accessories. Additionally, the guide warns against using the device in explosive atmospheres or high-consequence activities. It is crucial to follow all safety instructions and consult with a physician if you have any medical conditions that could be affected by the product.

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DANGER



READ AND UNDERSTAND ALL SAFETY INFORMATION BEFORE USING THIS PRODUCT. Failure to follow these safety instructions may result in ELECTRICAL SHOCK, EXPLOSION, FIRE, which may result in a SERIOUS INJURY, DEATH, or PROPERTY DAMAGE.



Electrical Shock. The product is an electrical device that can shock and cause serious injury. Do not cut power cords. Do not submerge in water or get wet.



areas.

Explosion. Unmonitored, incompatible, or damaged batteries can explode if used with the product. Do not leave the product unattended while in use. Do not attempt to jump-start a damaged or frozen battery. Use product only with batteries of recommended voltage. Operate products in well-ventilated



Fire. The product is an electrical device that emits heat and is capable of causing burns. Do not cover the product. Do not smoke or use any source of electrical spark or fire when operating the product. Keep product away from combustible materials.



Eye Injury. Wear eye protection when operating products. Batteries can explode and cause flying debris. Battery acid can cause eye and skin irritation. In the case of contamination of eyes or skin, flush the affected area with running clean water and contact poison control immediately.



Explosive Gases. Working in the vicinity of lead-acid is dangerous. Batteries generate explosive gases during normal battery operation. To reduce risk of battery explosion, follow all safety information instructions and those published by the battery manufacturer and manufacturer of any equipment intended to be used in the vicinity of the battery. Review cautionary markings on these products and on the engine.

For more information and support visit: www.no.co/support

Important Safety Warnings

- Proposition 65. Battery posts, terminals, and related accessories contain chemicals, including lead. These materials are known to the State of California to cause cancer and birth defects and other reproductive harm.
- Personal Precaution. Only use product as intended. Someone should be within range of your voice or close

enough to come to your aid in case of an emergency. Have a supply of clean water and soap nearby in the case of battery acid contamination.

- Wear complete eye protection and protective clothing while working near a battery.
- Always wash hands after handling batteries and related materials.
- Do not handle or wear any metal objects when working with batteries including; tools, watches or jewelry.
- If metal is dropped onto the battery, it may spark or create a short circuit resulting in electrical shock, fire, explosion which may result in injury, death or property damage. Minors.
- If the product is intended by "Purchaser" to be used by a minor, purchasing adult agrees to provide detailed instructions and warnings to any minor prior to use.
- Failure to do so is the sole responsibility of the "Purchaser," who agrees to indemnify NOCO for any unintended use or misuse by a minor.
- Choking Hazard. Accessories may present a choking hazard to children. Do not leave children unattended with the product or any accessories.
- The product is not a toy. Handling. Handle product with care.
- The product can become damaged if impacted.
- Do not use a damaged product, including, but not limited to, cracks to the casing or damaged cables.
- Do not use the product with a damaged power cord. Humidity and liquids may damage the product.
- Do not handle product or any electrical components near any liquid. Store and operate the product in dry locations.
- Do not operate the product if it becomes wet.
- If the product is already operating and becomes wet, disconnect it from the battery and discontinue use immediately. Do not disconnect the product by pulling on the cables. Modifications.
- Do not attempt to alter, modify or repair any part of the product.
- Disassembling products may cause injury, death or damage to property. If a product becomes damaged, malfunctions or comes in contact with any liquid, discontinue use, and contact NOCO. Any modifications to the product will void your warranty.
- Accessories. This product is only approved for use with NOCO accessories. NOCO is not responsible for user safety or damage when using accessories not approved by NOCO.
- Location. Prevent battery acid from coming in contact with the product.
- Do not operate the product in a closed-in area or an area with restricted ventilation.
- Do not set a battery on top of the product. Position cable leads to avoid accidental damage by moving vehicle parts (including hoods and doors), moving engine parts (including fan blades, belts, and pulleys), or what could become a hazard that may cause injury or death.
- Operating Temperature.
- This product is designed to work in ambient temperatures between -20° C to 50° C. Do not operate outside of temperature ranges.
- Do not jump start a frozen battery.
- Discontinue the use of the product immediately if the battery becomes excessively warm.
- Storage.
- Do not use or store your product in areas with high concentrations of dust or airborne materials. Store your product on flat; secure surfaces so it's not prone to falling. Store your product in a dry location.
- The storage temperature is -20°C to +50°C (0°C ~ +25°C daily average). Never exceed 80°C under any condition.
- Compatibility. The product is only compatible with 12-volt lead-acid batteries only.
- Do not attempt to use the product with any other type of battery.
- Jump starting other battery chemistries may result in injury, death or property damage. Contact the battery

manufacturer prior to attempting to jump-start the battery.

- Do not jump-start a battery if you are unsure of the battery's specific chemistry or voltage.
- The Battery. The built-in lithium-ion battery in the product should be replaced only by NOCO and must be recycled or disposed of separately from household waste.
- Do not attempt to replace the battery yourself and do not handle a damaged or leaking lithium-ion battery
- Never dispose of batteries in household trash.
- Disposal of batteries in household trash is unlawful under state and federal environmental laws and regulations. Always take used batteries to your local battery recycling center.
- If the product battery is excessively hot, emitting an odor, deformed, cut, or is experiencing or demonstrating an abnormal occurrence, immediately stop all use and contact NOCO.
- Battery Charging.
- Charge the product with the included USB charge cable and a NOCO 10W 12V power adapter. A third-party USB cable and 5W or 10W power adapter that are compatible with USB 2.0 or power adapters compliant with one or more of the following standards EN 301489-34, IEC 62684, YD/T 1591-2009, CNS 15285, ITUL.2000.
- Be cautious of using low-quality power adapters, as they may present a serious electrical risk that can result in injury to a person, Device, and property.
- If using a third-party USB power adapter, contact the manufacturer(s) to find out if your power adapter complies with the above standards.
- Using damaged cables or chargers, or charging when moisture is present, can result in electric shock. Using a generic or third-party power adapter may shorten the life of your product and cause the product to malfunction.
- NOCO is not responsible for the user's safety when using accessories or supplies that are not approved by NOCO.
- When using a USB Power Adapter to charge the product, make sure that the AC plug is fully inserted into the adapter before you plug it into a power outlet. Power adapters may become warm during normal use, and prolonged skin contact may cause bodily injury.
- Always allow adequate ventilation around power adapters when using them.
- To ensure maximum battery life, avoid charging your product for more than a week at a time, as overcharging may shorten battery life.
- Over time, an unused product will discharge and must be recharged before use.
- Disconnect the product from power sources when not in use.
- Use the product only for their intended purposes. Medical Devices. Product may emit electromagnetic fields.
- The product contains magnetic components which may interfere with pacemakers, defibrillators, or other medical devices.
- These electromagnetic fields may interfere with pacemakers or other medical devices.
- Consult with your physician prior to use if you have any medical device including pacemakers.
- If you suspect the product is interfering with a medical device, stop using the product immediately and consult your physician. Medical Conditions.
- If you have any medical condition that you believe could be affected by the product, including but not limited to; seizures, blackouts, eyestrain or headaches, consult your physician prior to use of the product.
- The use of an integrated high-powered flashlight contains a light sensitivity hazard.
- Use of the light in Strobe Mode may cause seizures in persons with photosensitive epilepsy, which may result in serious injury or death. Light. Staring directly into the light beam or shine of the flashlight may result in permanent eye injury.

- The product is equipped with a high output LED pre-focused lamp that emits a powerful beam at the highest setting.
- Cleaning Power off the product before attempting any maintenance or cleaning. The clean and dry product immediately if it comes in contact with liquid or any type of contaminant.
- Use a soft, lint-free (microfiber) cloth. Avoid getting moisture in openings.
- Explosive Atmospheres. Obey all signs and instructions.
- Do not operate the product in any area with a potentially explosive atmosphere, including fueling areas or areas which contain chemicals or particles such as grain, dust, or metal powders. High-Consequence Activities.
- This product is not intended for use where the failure of the product could lead to injury, death, or severe environmental damage. Radio Frequency Interference.
- The product is designed, tested, and manufactured to comply with regulations governing radio frequency emissions. Such emissions from the product can negatively affect the operation of other electronic equipment, causing them to malfunction.
- **Model Number:** GB40 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.

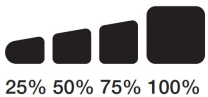
NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

How To Use

Step 1: Charge the GB40.

The GB40 comes partially charged out of the box and needs to be fully charged prior to use. Connect the GB40 using the included USB Charge Cable to the USB IN port and the USB car charger. It can also be recharged from any USB-powered port, like an AC adapter, car charger, laptop, and more. The USB IN port is rated at 2.1 Amps to ensure safe and efficient charging of the internal lithium battery. Due to FCC regulations, we recommend not to charge and discharge the unit at the same time. The time to recharge a GB40 will differ based on the discharge level and the power source used. Actual results may vary due to battery conditions.

Charger Rating:	12h	6h	3h
Recharge Time:	.5A	1A	2A



When recharging, the charge level of the internal battery is indicated by the Charge LEDs. The LEDs will slowly pulse ‘On’ and ‘Off’ and become solid until all four Charge LEDs are on. When the battery is fully charged, the Green 100% LED will be solid, and the 25%, 50%, and 75% Charge LEDs will turn “Off”. From time to time, the Green 100% LED will pulse indicating maintenance charging is occurring.

Step 2: Connect to the Battery.

Carefully read and understand the vehicle owner's manual on specific precautions and recommended methods for jump-starting the vehicle. Make sure to determine the voltage and chemistry of the battery by referring to your battery owner's manual prior to using this product. The GB40 is for jump-starting 12-volt lead-acid batteries only. Before connecting to the battery, verify that you have a 12-volt lead-acid battery. The GB40 is not suitable for any other type of battery. Identify the correct polarity of the battery terminals on the battery. The positive battery terminal is typically marked by these letters or symbols (POS,P,+). The negative battery terminal is typically marked by these letters or symbols (NEG,N,-). Do not make any connections to the carburetor, fuel lines, or thin, sheet metal parts. The below instructions are for a negative ground system (most common). If your vehicle is a positive ground system (very uncommon), follow the below instructions in reverse order.

1. Connect the battery clamps to the GB40 by connecting to the 12V OUT port.
2. Connect the positive (red) HD battery clamp to the positive (POS,P,+) battery terminal.
3. Connect the negative (black) HD battery clamp to the negative (NEG,N,-) battery terminal or vehicle chassis.
4. When disconnecting, disconnect in the reverse sequence, removing the negative first (or positive first for positive ground systems).

Step 3: Jump Starting.

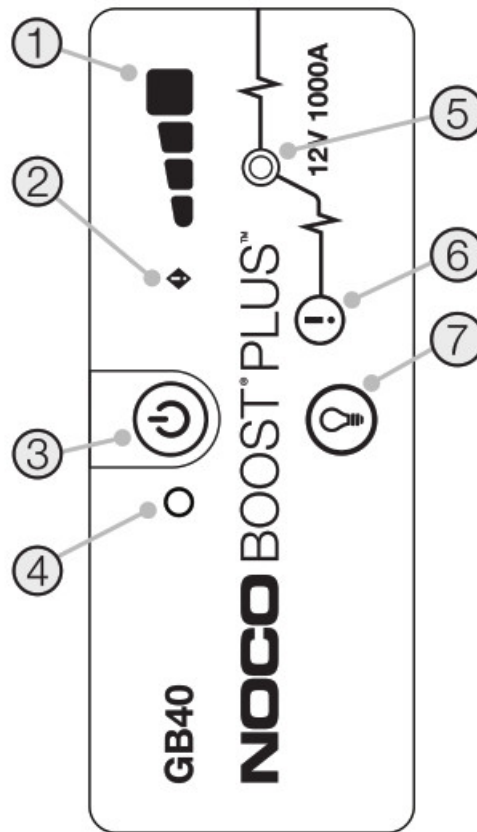
1. Make sure all of the vehicle's power loads (headlights, radio, air conditioning, etc.) are turned off before attempting to jump-start the vehicle.
2. Press the Power Button to begin jump start. All LEDs will flash, indicating that all LEDs are properly functioning. If you are properly connected to the battery, the White Boost LED will illuminate. If the battery clamps are connected in reverse, the Red Error LED will illuminate. Reverse the connections to clear this error and then the White Boost LED will illuminate. The White Boost LED is illuminated, when the GB40 is ready to jump-start your vehicle.
3. Try starting the vehicle. Most vehicles will immediately start. Some vehicles may require the GB40 to be connected for up to 30 seconds before starting. If the vehicle does not start right away, wait 20-30 seconds and try again. Do not attempt more than five (5) consecutive jump-starts within a fifteen (15) minute period. Allow the GB40 to rest for fifteen (15) minutes before attempting to jump-start the vehicle again.
4. Once you have started your vehicle, disconnect the battery clamps and remove the GB40.

Low Voltage Batteries & Manual Override.

The GB40 is designed to jump-start 12-volt lead-acid batteries down to 2-volts. If your battery is below 2-volts, the Boost LED will be "Off". This is an indication that the GB40 can not detect a battery. If you need to jump-start a battery below 2-volts there is a Manual Override feature, which allows you to force "On" the jump start function.

CAUTION.

USE THIS MODE WITH EXTREME CARE. THIS MODE IS FOR 12-VOLT LEAD-ACID BATTERIES ONLY. BOTH THE SPARK-PROOF AND REVERSE POLARITY PROTECTION FEATURES ARE DISABLED. PAY VERY CLOSE ATTENTION TO THE POLARITY OF THE BATTERY BEFORE USING THIS MODE. DO NOT ALLOW THE POSITIVE AND NEGATIVE BATTERY CLAMPS TO TOUCH OR CONNECT TO EACH OTHER AS THE PRODUCT WILL GENERATE SPARKS. THIS MODE USES VERY HIGH CURRENT (UP TO 1000 AMPS) THAT CAN CAUSE SPARKS AND High Heat IF NOT USED PROPERLY. IF YOU ARE UNSURE ABOUT USING THIS MODE, DO NOT ATTEMPT AND SEEK PROFESSIONAL HELP.



1. Internal Battery Level Indicates the charge level of the internal battery.
2. Error LED Illuminates Red if the reverse polarity is detected, or blinks “On” and “Off” when the internal battery temperature is too high.
3. Power Button Push to turn unit “On” & “Off”.
4. Power LED Illuminates White when the unit is “On”.
5. Boost LED Illuminates White when Boost is active. If the unit is connected properly to a battery, the GB40 will automatically detect a battery and go into Boost mode (LED flashes White when the Manual Override feature is active).
6. Manual Override Button To enable, push and hold for three (3) seconds. **WARNING:** Disables safety protection and manually forces Boost “On”. Only for use when a battery is too low to be detected.
7. Light Mode Button Toggles the ultra-bright LED light through 7 light modes: 100% > 50% > 10% > SOS > Blink > Strobe > Off

Troubleshooting



Error	Reason/Solution
Error LED: Solid Red	Reverse polarity/Reverse the battery connections.
Error LED: Blinking Red w/Cables Connected Properly	The internal battery is too hot/ Allow the unit to cool environment.
Boost Light Does Not Come On w/Cables Connected Properly	The internal battery is too hot/ Allow the unit to cool environment.

Technical Specifications

Internal Battery: Lithium-Ion
 Peak Current Rating: 1000A
 Operating Temperature: -20°C to +50°C
 Charging Temperature: 0°C to +40°C
 Storage Temperature: -20°C to +50°C (Avg Temp.)
 Micro USB (Input): 5V, 2.1A
 USB (Output): 5V, 2.1A
 Housing Protection: IP65 (w/Ports Closed)
 Cooling: Natural Convection
 Dimensions (L x W x H): 6.7 x 3.2 x 1.7 Inches
 Weight: 2.4 Pounds

Warranty

NOCO One (1) Year Limited Warranty.

NOCO warrants that this product (the "Product") will be free from defects in material and workmanship for a period of one (1) year from the date of purchase (the "Warranty Period"). For defects reported during the Warranty Period, NOCO will, at its discretion, and subject to NOCO's technical support analysis, either repair or replace defective Products. Replacement parts and products will be new or serviceably used, comparable in function and performance to the original part, and warranted for the remainder of the original Warranty Period.

NOCO'S LIABILITY HEREUNDER IS EXPRESSLY LIMITED TO REPLACEMENT OR REPAIR. TO THE MAXIMUM EXTENT PERMITTED BY LAW, NOCO SHALL NOT BE LIABLE TO ANY PURCHASER OF THE PRODUCT OR ANY THIRD PARTY FOR ANY SPECIAL, INDIRECT, CONSEQUENTIAL, OR EXEMPLARY DAMAGES, INCLUDING, BUT NOT LIMITED TO, LOST PROFITS, PROPERTY DAMAGE, OR PERSONAL INJURY, RELATED IN ANY WAY TO THE PRODUCT, HOWSOEVER CAUSED, EVEN IF NOCO HAD KNOWLEDGE OF THE POSSIBILITY OF SUCH DAMAGES. THE WARRANTIES SET FORTH HEREIN ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, IMPLIED, STATUTORY, OR OTHERWISE, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND THOSE ARISING FROM THE COURSE OF DEALING, USAGE, OR TRADE PRACTICE. IN THE EVENT THAT ANY APPLICABLE LAWS IMPOSE WARRANTIES, CONDITIONS, OR OBLIGATIONS THAT CANNOT BE EXCLUDED OR MODIFIED, THIS PARAGRAPH SHALL APPLY TO THE GREATEST EXTENT ALLOWED BY SUCH LAWS.

This Limited Warranty is made solely for the benefit of the original purchaser of the Product from NOCO or from a NOCO approved reseller or distributor and is not assignable or transferable. To assert a warranty claim, the purchaser must: (1) request and obtain a return merchandise authorization ("RMA") number and return location information (the "Return Location") from NOCO Support by emailing support@no.co or by calling 1.800.456.6626; and (2) send the Product, including RMA number, receipt or a warranty fee (fee required only if not providing receipt) of 45% of MSRP of the defective Product (the "Warranty Fee") [RMA will include applicable Warranty Fee amount] to the Return Location. DO NOT SEND IN PRODUCT WITHOUT FIRST OBTAINING AN RMA FROM NOCO SUPPORT.

THE ORIGINAL PURCHASER IS RESPONSIBLE (AND MUST PREPAY) ALL PACKAGING AND TRANSPORTATION COSTS TO SHIP PRODUCTS FOR WARRANTY SERVICE.

NOTWITHSTANDING THE ABOVE, THIS LIMITED WARRANTY IS VOID AND DOES NOT APPLY TO PRODUCTS THAT:

- Are misused, mishandled, subjected to abuse or careless handling, accident, improperly stored, or operated under conditions of extreme voltage, temperature, shock, or vibration beyond NOCO's recommendations for safe and effective use;
- improperly installed, operated or maintained;
- are/were modified without the express written consent of NOCO;
- have been disassembled, altered or repaired by anyone other than NOCO;
- the defects of which were reported after the Warranty Period.

THIS LIMITED WARRANTY DOES NOT COVER:

1. normal wear and tear;
2. cosmetic damage that does not affect functionality; or
3. Products where the NOCO serial number is missing, altered, or defaced.

You may register your NOCO product online at: no.co/register. If you have any questions regarding your warranty or product, contact NOCO Support (email and phone number above) or write to: The NOCO Company, at 30339 Diamond Parkway, #102, Glenwillow, OH 44139 USA.

FAQS

How long does the charge for the jumper last? dead batteries are few and far in between. If i were to charge it will it last a year, 2 years?

Mine lasted 6 years, in fairness it did not get charged up periodically.

What is the operating temperature range? Can it be safely left in the hot car in the middle of summer (180 degrees or more)?

There is good information that the upper storage temperature of 104°F (40°C) is the limit. My lithium jump starter (TypeS) states this 104° number in its manual and googling provides backup for this temperature limit. My vehicle gets above 150° F when setting in my driveway in the S. Calif summer as determined by my optical thermometer. It is also known fact that keeping a lithium battery fully charged reduces its ability to withstand higher temperatures.

how long to charge?

Initially you need to charge it for about 24 hours. After the initial charge you can use several times before you need to charge it.

why did this person charge the GB40 24 hours? After it is fully charged you should have 2 red one yellow and green meaning its fully charged Correct . This took me about 3 hours not 24

Allowed as carry-on luggage during flights?

Yes. The GB40 is FAA compliant and can be taken on a plane, however they have to be in your carry-on. No-Lithium batteries are allowed to be checked in luggage. The GB40 is under 100Wh which is the limit set by the FAA. For more additional information, or for current updates, please see the link below to the FAA guidelines.

Can I leave the cigarette lighter charger plugged in to keep the unit charged?

Apologies for the delay in response! As long as you're using a USB-powered port rated at 2.1 amps or less to charge your GB40.

Do the clamps have to be removed quickly like with other chargers? To keep from frying the electronics?

This is not a charger, it is a jump starter, and you do not need to hurry to remove the clamps on any jump starter.

Can the noco genius boost plus gb40 be used as a battery tender?

The GB40 is a jump starter and should be used when your vehicle requires a jump. If you are looking to maintain your battery, the GB40 should not be used for this purpose.

How long will it keep a charge? I am gone for 3-5 weeks at a time for work. (4.0l Jeep Wrangler)

It will hold 75% of its charge for a year or longer. We recommend topping it off once every six months to make sure it stays fully charged but 3-5 weeks should not be a problem at all

Will it work on my 2011 Ford Escape?

Yes it should work on a 2011 Ford Escape

how it charge it? Have a charger? Works with 220v?

Yes it work with 220v IF you use a 220v rated USB charger meeting the USB amperage as provided by the manufacturer.

Can the gb 40 charge the harley davidson lithium battery?

No. The GB40 is a jump starter only, it is not a battery charger or maintainer. Additionally, the GB40 is compatible with lead-acid batteries only, and cannot be used to jump start a lithium battery.

Which model is good for jumping Tesla batteries

All Boost models can be used on the 12-volt accessory battery to activate the vehicle's electronics or put it into tow mode.

Will this jump start a bmw 2015 x1?

Not sure. It claims to start a 3.0l Diesel to a 6.0L Gas.

First date available is january 2010. it's got a12 year life shelf already. are they any good? what's the live expectancy for these devices?

This unit has been great, a full charge will last and be ready use within a year or more on the shelf. You do need to recharge it once you have used it and it will stay ready until you need it again.

Will it work with an AGM battery?

Yes.

Will this start an agm battery?

The GB40 is compatible with AGM batteries

What do i need for a 10 year old subaru suv?

Our Boosts are rated to the size of the vehicle's engine. The GB40 is rated for gas engines up to 6.0l, if your Subaru's engine is 6L or less, the GB40 would be sufficient.


Does this work with the 2019 lexus es 300h battery? the battery is 29.1 kwh 245 v nickel-metal hydride.

It works w/ all 12 volt batteries

Does it has an UL or equivalent rating ?

Yes. All of our Boost packs are UL certified.



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References

- [NOCO](#)