



HOG *Booster*

User Guide

WARNING



Prior to use, read and understand product safety information. Failure to follow the instructions can result in an explosion, electrical shock, or fire, which could result in death, serious injury or damage to device or property. Do not discard this information.

What's In The Box.

- HOG Booster Lithium Jump Starter
- Micro USB Cable
- 12V USB Charger
- Battery Clamps
- Storage Bag
- User Guide & Information Guide and Warranty

WARNING



Read and understand all safety information before using this product. Failure to follow these safety instructions can result in an explosion, electrical shock or fire, which could result in death, serious injury or damage to device or property.



Electrical Shock. 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.



Explosion. Unmonitored, incompatible, or damaged batteries can explode if used with product. Do not leave 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 product in well ventilated areas.



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



Eye Injury. Wear eye protection when operating product. 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 affected area with running clean water and contact poison control immediately.



Explosive Gases. Working in the vicinity of a 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 battery. Review cautionary markings on these products and on engine.

Important Safety Information

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 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 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 Harley-Davidson 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 product or any accessory. 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 product with a damaged power cord. Humidity and liquids may damage product. Do not handle product or any electrical components near any liquid. Store and operate product in dry locations. Do not operate product if it becomes wet. If 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 product may cause injury, death or damage to property. If product becomes damaged, malfunctions or comes in contact with any liquid, discontinue use, and contact Harley-Davidson. Any modifications to the product will void your warranty.

Accessories. This product is only approved for use with Harley-Davidson accessories. Harley-Davidson is not responsible for user safety or damage when using accessories not approved by Harley-Davidson.

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 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 -30 °C to 50 °C. Do not operate outside of temperature ranges. Do not jump start a frozen battery. Discontinue use of 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 - 25 °C (average temperature). 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 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 Harley-Davidson, 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 battery 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 Harley-Davidson.

Battery Charging. Charge the product with the included USB charge cable and a Harley-Davidson 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.1000. Be cautious of using low quality power adaptors, as they may present a serious electrical risk that can result in injury to 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 generic or third-party power adapter may shorten the life of your product and cause the product to malfunction. Harley-Davidson is not responsible for the user's safety when using accessories or supplies that are not approved by Harley-Davidson.

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 its intended purposes.

Medical Devices. Product may emit electromagnetic fields. Product contains magnetic components which may interfere with pacemakers, defibrilators, 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 product, including but not limited to; seizures, blackouts, eyestrain or headaches, consult your physician prior to use of product. The use of a 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 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. 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 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. 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: Hog Booster

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.

One (1) Year Limited Warranty,

Harley-Davidson warrants to the original retail purchaser that the Hog Booster (the "Product") will be free from defects in material and workmanship for a period of one (1) year from the date of purchase from a Harley-Davidson authorized dealer under normal use and service (the "Warranty Period"). For defects reported during the Warranty Period, Harley-Davidson will, at its discretion, and subject to Harley-Davidson's technical support analysis, either repair or replace. 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.

THE FOREGOING LIMITED WARRANTY IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES NOT EXPRESSLY SET FORTH HEREIN, WHETHER EXPRESS OR IMPLIED BY OPERATION OF LAW OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

HARLEY-DAVIDSON'S LIABILITY UNDER THIS LIMITED WARRANTY IS EXPRESSLY LIMITED TO REPLACEMENT (IN THE FORM AND UNDER THE TERMS ORIGINALLY SHIPPED) OR TO REPAIR, WHETHER SUCH CLAIMS ARE FOR BREACH OF WARRANTY OR FOR NEGLIGENCE, HARLEY-DAVIDSON SHALL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, OR SPECIAL LOSSES, DAMAGES OR EXPENSES OF ANY KIND, INCLUDING WITHOUT LIMITATION, ANY SUCH LOSSES, DAMAGES, OR EXPENSES ARISING DIRECTLY OR INDIRECTLY FROM THE SALE, HANDLING, OR USE OF THE PRODUCT FROM ANY OTHER CAUSE RELATING THERETO, OR FROM PERSONAL INJURY OR LOSS OF PROFIT.

Some states, provinces and countries do NOT allow the exclusion or limitation of incidental or consequential damages or length of an implied warranty so the above limitations or exclusion(s) may NOT apply. This Limited

Warranty gives you specific legal rights and you may also have other legal rights which vary by state, province and country.



Limited Warranty

This Limited Warranty is made to the original purchaser from Harley-Davidson and does NOT extend to any other person, entity or authorized dealer and is NOT assignable. It is the obligation of the original purchaser to:

1.) Return merchandise to a Harley-Davidson authorized dealer location with receipt.

THIS LIMITED WARRANTY IS VOID UNDER THE FOLLOWING CONDITIONS:

1.) The product is misused, subjected to careless handling or operated under conditions of extreme temperature, shock, or vibration beyond Harley-Davidson's recommendations for safe and effective use.

2.) The product has NOT been installed, operated, or maintained in accordance with approved procedures.

3.) The product is disassembled, altered, or repaired by anyone, except Harley-Davidson.

4.) The electrical connections to the DC output of the product are modified without the express written consent of Harley-Davidson.

5.) The product is subject to improper storage or accident.

THIS LIMITED WARRANTY DOES NOT COVER:

1.) Normal wear and tear.

2.) Cosmetic damage that does NOT affect functionality.

3.) Products where the Harley-Davidson serial number is missing, altered, or defaced.

Contacting Harely-Davidson

Phone: 1-800-258-2464

Email: <http://www.harley-davidson.com>

Mailing Address: Harley-Davidson Customer Care,
3700 W. Juneau Avenue,
Milwaukee, WI 53208

About Hog Booster. The Hog Booster is an ultra-compact and portable lithium-ion jump starter for motorcycles, cars, boats, ATVs, lawn mowers, RVs, tractors, trucks and more. It's extremely safe for anyone to use. It features spark proof technology and reverse polarity protection. The Hog Booster can instantly jump start most single-battery applications, up to 20 times on a single charge. The Hog Booster is also equipped with a USB battery pack and LED flashlight, making it the ultimate emergency tool.

Getting Started. The Hog Booster comes partially charged out of the box and needs to be fully charged prior to use. 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 Hog Booster is for jump starting 12-volt lead-acid batteries only.

Connecting to the Battery.

Before connecting to the battery, verify that you have a 12-volt lead-acid battery. The Hog Booster 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 symbol (POS,P,+). The negative battery terminal is typically marked by these letters or symbol (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.

Note.) When disconnecting, disconnect in the reverse sequence, removing the negative first (or positive first for

positive ground systems).

- 1.) Connect the positive (red) battery clamp to the positive (POS,P,+) battery terminal.
- 2.) Connect the negative (black) battery clamp to the negative (NEG,N,-) battery terminal or vehicle chassis.

Jump Starting.

- 1.) Verify the voltage and chemistry of the battery.
- 2.) Confirm the battery clamps are connected to the correct polarity battery terminals.
- 3.) Connect the X Connector to the Hog Booster.
- 4.) Make sure all of the vehicle's power loads (headlights, radio, air conditioning, etc.) are turned off before attempting to jump start the vehicle.
- 5.) Press the power button to begin jump starting. All LEDs will flash, indicating that all LEDs are properly functioning. If you are properly connected to the battery, the White Hog Booster LED will illuminate. If the battery clamps are connected in reverse, the Red Error LED will illuminate. Reverse the connections (See disconnecting procedure above) to clear this error and then the White Hog Booster LED will illuminate. The White Hog Booster LED is illuminated, when the Hog Booster is ready to jump start your vehicle.
- 6.) Try starting the vehicle. Most vehicles will immediately start. Some vehicles may require the Hog Booster 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 Hog Booster to rest for fifteen (15) minutes before attempting to jump start the vehicle again.
- 7.) Once you have started your vehicle, power off the unit, disconnect the battery clamps, and remove the Hog Booster.

Low Voltage Batteries & Manual Override

The Hog Booster is designed to jump start 12-volt lead-acid batteries down to 2-volts. If your battery is below 2-volts, the Hog Booster LED will be "Off". This is an indication that the Hog Booster 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.

⚠ WARNING

Failure to follow the instructions can result in an explosion, electrical shock, or fire, which could result in death, serious injury or damage to device or property. If you are unsure about using this mode, do not attempt and seek professional help. 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.

Before using the Manual Override feature, make sure the battery clamps are connected to the correct polarity battery terminals and the X Connect is connected to the Hog Booster. To use the Manual Override feature, press and hold the Manual Override Button (a red exclamation point icon inside a red circle) for three (3) seconds. The White Hog Booster LED will flash "On" and "Off" indicating you have successfully entered into Manual Override and it is ready to jump start your vehicle. If connected in reverse polarity, the Red Error LED will illuminate and the unit will not operate.

⚠ WARNING

Failure to follow the instructions can result in an explosion, electrical shock, or fire, which could result in death, serious injury or damage to device or property. Remember both the spark proof and reverse polarity protection features are disabled. Power the hog booster "off" before disconnecting the battery clamps. This will ensure your safety.

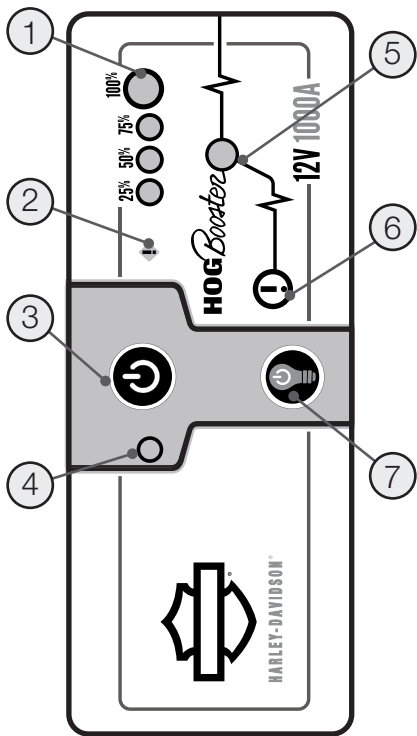
Most vehicles will immediately start. Some vehicles may require the Hog Booster to be connected for up to 30 seconds before starting. If the vehicle does not start right away, wait 20-30 seconds and try again. Do not attempt more than five (5) consecutive jump starts within a fifteen (15) minute period. Allow the Hog Booster to rest for fifteen (15) minutes before attempting to jump start the vehicle again.

Understanding Charge LEDs.

The Hog Booster has four (4) Charge LEDs - 25%, 50%, 75% and 100%. These Charge LEDs indicate the internal battery's state-of-charge (SOC). See below:

When Recharging the Hog Booster.

LED	Explanation
<p>25% Red LED</p> <p>25% 50% 75% 100%</p>	<p>The 25% Charge LED will "breathe" on/off while charging and will be solid Red when the internal battery is 25% charged.</p>
<p>50% Red LED</p> <p>25% 50% 75% 100%</p>	<p>The 50% Charge LED will "breathe" on/off while charging and will be solid Red when the internal battery is 50% charged.</p>
<p>75% Yellow LED</p> <p>25% 50% 75% 100%</p>	<p>The 75% Charge LED will "breathe" on/off while charging and will be solid Yellow when the internal battery is 75% charged.</p>
<p>100% Green LED</p> <p>25% 50% 75% 100%</p>	<p>The 100% Charge LED will "breathe" on/off while charging and will be solid Green when the internal battery is fully charged.</p> <p>When connected to a USB charger, no other charge LEDs will be illuminated. Once disconnected from the charger, all four (4) Charge LEDs will be illuminated when the internal battery is between 75%-100%, and the unit is powered "ON".</p>



User Interface.

1. Internal Battery Level

Indicates the charge level of the internal battery.

2. Error LED

Illuminates Red if 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" and "Off".

4. Power LED

Illuminates white when unit is "On".

5. Hog Booster LED

Illuminates white when Hog Booster is active. If the unit is connected properly to a battery, the Hog Booster will automatically detect a battery and go into Hog Booster mode (LED flashes white when Manual Override feature is active).

6. Manual Override Button





WARNING

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7. Light Mode Button

Toggles the ultra-bright LED light through 7 light modes: 100% > 50% > 10% > SOS > Blink > Strobe > Off

Understanding LEDs When Recharging.

LED	Explanation
25% Red LED 25% 50% 75% 100% 	The 25% Charge LED will slowly pulse "On" and "Off", when the battery is less than 25% charged. When the battery is 25% charged, the Red Charge LED will be solid.
50% Red LED 25% 50% 75% 100% 	The 50% Charge LED will slowly pulse "On" and "Off", when the battery is less than 50% charged. When the battery is 50% charged, the Red Charge LED will be solid.
75% Yellow LED 25% 50% 75% 100% 	The 75% Charge LED will slowly pulse "On" and "Off", when the battery is less than 75% charged. When the battery is 75% charged, the Yellow Charge LED will be solid.
100% Green LED 25% 50% 75% 100% 	The 100% Charge LED will slowly pulse "On" and "Off", when the battery is less than 100% charged. When the battery is fully charged, the Green LED will be solid, and the 25%, 50% and 75% Charge LEDs will turn "Off".

Understanding Error Conditions.

The Hog Booster shall display an Error Condition when a reverse polarity condition is present, a battery below two (2) volts, or the internal battery overheating. When one of these Error Conditions are present, the following will happen:

Error	Reason/Solution
Error LED Solid Red	Reverse polarity/ Reverse the battery connections.

Error	Reason/Solution
Error LED Blinking Red w/Cables Connected Properly	The internal battery is too hot/ Allow the unit to cool. Bring the unit into cooler environment.
Booster Light Does Not Come On w/Cables Connected Properly	Connected battery is below 2-volts/ Remove all loads, and try again, or use Manual Override Mode.

Charging the Hog Booster.

Connect the Hog Booster 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.

Charging Times.

The time to recharge a Hog Booster will differ based on the discharge level and the power source used. Actual results may vary due to battery conditions.

USB Charger Rating			
	.5A	1A	2A
Time	12hr	6hr	3hr

Charging Your USB Devices.

You can recharge virtually any USB device, like a smartphone. Connect the included USB Charge Cable to the USB OUT port and connect to your USB device. The number of times you can recharge a USB device will vary between devices. For recharge times, contact your device manufacturer.

LED Flashlight.

The Hog Booster has an integrated ultra-bright LED flashlight. It has seven (7) light modes that effect its performance and longevity: 100%, 50%, 10%, SOS, Blink, Strobe, and Off.

To turn the flashlight "On" and "Off", use the Power button with the light bulb icon. Press once to turn the flashlight "On" at 100% luminosity, again for 50% luminosity (within 3 seconds), again for 10% luminosity (within 3 seconds), again for SOS (within 3 seconds), again for Blink (within 3 seconds), again for Strobe (within 3 seconds) and again for "Off". If a light mode is not selected within 3 seconds, it will remain "On" in the current light mode, and the next selection will turn the flashlight "Off".

Depending on the mode selection, the Hog Booster will have various levels of output and runtime. Selecting a lower power level when using the Hog Booster for extended periods of time will prolong battery life.

Modes:

100% > 50% > 10% > SOS > Blink > Strobe > Off

Energy Saving Auto Shut Off.

The Hog Booster has a built in energy saving feature that will automatically turn the unit off after seven (7) hours. To continue using, simply power on the unit again.

Technical Specifications.

Internal Battery:	Lithium Ion
Peak Current Rating:	1000A
joules ^{3S} :	7000+
Operating Temperature:	-30 °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