

IONBOOST™ V10 **TORQUE**

LITHIUM JUMP STARTER



User's Manual

We are constantly improving our products so specifications are subject to change without notice.

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User's Manual—Read before using this equipment

Thank you for purchasing the iOnBoost™ V10 Torque by Wagan Tech®. With normal care and proper treatment, it will provide years of reliable service.

IMPORTANT INFORMATION

- Before using this unit, read and understand all instructions included in this manual as well as those published by your vehicle's battery manufacturer or any other device intended to be used with this unit. Failure to follow all listed instructions may result in electric shock, fire, and/or serious personal injury.
- Make sure the iOnBoost is fully charged before first use.

GENERAL WARNINGS

- This appliance is NOT intended for use by persons with reduced physical, sensory, or mental capabilities.
- Children or persons lacking in experience and knowledge also should NOT operate this appliance unless he/she has been given supervision or instruction concerning the proper usage and warnings of the appliance by a person responsible for their safety.
- For proper and safe operation of any accessory outlet, do not place anything in it except the plug of the accessory to be used.
- Use only the charging adapters and jumpstarting clamps provided in this package. Unauthorized parts may cause serious damage or injury.
- Wear complete eye and clothing protection when jumpstarting a vehicle. Do not touch eyes while working with battery.
- Remove metal jewelry, such as rings, bracelets, necklaces, and watches while working with a vehicle battery. These items can produce a short-circuit that may cause severe burns.
- Do not operate this unit in or around water. Exposure to excessive moisture will damage the unit.
- Dropping, hitting, or otherwise applying excessive amounts of force to the iOnBoost may damage the unit. This could result in loss of operation, electrical fire, or other undesired outcome.

FEATURES

Jump Starter

- 1,000 peak Amps auto jump starter—ideal for cars, vans, SUVs, trucks, and more
- Powerful, rechargeable, 45.0 Wh 4-cell Lithium-ion Polymer battery
- Heavy duty booster clamps

USB Power Source

- 2 USB power ports (including one rapid-charge port) with 2.0 Amp output (each).

iOnBoost™ V10 Torque by Wagan Tech®

Safety Features

- Reverse polarity protection with alarm
- Short-circuit protection
- Over-discharging protection
- Reverse charging protection
- Overheat protection
- Overload protection

Other Features

- 12V DC port
- LED flashlight: solid, strobe, and SOS
- Battery status indicators

SPECIFICATIONS

Battery type	4-cell Lithium-ion Polymer
Battery capacity (watt-hours)	45.0 Wh
Peak amps	1,000 A
Cranking amps	500 A
Jumper cables	10 AWG, 13-inch
DC Accessory Outlet	12V (15V,5A)
USB power port	1x 5v@2.0A, 1x rapid-charge port
Flashlight	LED with 3 lighting modes
Operating temperatures	32°F–140°F
Storage temperatures	32°F–140°F
Input	5V, 2.0A
Recharging time	7 hours

CARE & MAINTENANCE

This unit may be stored in any position. Make sure the clamps are secure inside the booster cable storage covers and store at room temperature. If the iOnBoost is not used for a prolonged period of time, recharge every 3 months.

PRODUCT DIAGRAM

Actual contents may differ slightly from that pictured.



CHARGING THE IONBOOST

This product may arrive partially charged from the manufacturer. It is recommended to fully charge the unit immediately after purchase and before using for the first time. Prior to charging the unit, read and understand all instructions in this manual.

In order to prolong the life of the iOnBoost, be sure to fully recharge the unit after each use and every 3 months even if the iOnBoost has not been used.

1. Insert the charging cable into the charging jack of the unit.
2. Plug the other end of the cable into any USB power source, such as an AC wall adapter or the supplied DC charging adapter (engine must be operating if charging iOnBoost in car).
3. Fully charge the unit (around 7 hours). Charging is complete when all battery status indicator lights illuminate solid.
4. The battery status can be checked by tapping on the Power button once.

JUMPSTARTER

⚠ Read the instructions before using the iOnBoost!

JUMPSTART WARNINGS

Failure to follow these instructions may cause damage or explosion.

NOTE: Cranking an engine produces an accumulation of explosive gas above and near the vehicle battery. Before any attempt to jumpstart a vehicle battery, make sure explosive gas is dispelled from the area. Use a cardboard or newspaper fan to wave the gases away from the battery for a few minutes. Do not use plastic or metal sheet—they can produce sparks and ignite the gas.

- Jumpstart cables connected to iOnBoost are ALWAYS live! Never allow the clamps to touch together or contact the same piece of metal.
- Do not attempt to jumpstart your vehicle when iOnBoost is below 80% charge (observe battery status indicator lights on the unit—80%=4 solid lights).
- Only use this jumpstarter with 12 Volt negative-grounded systems. Most US vehicles have negative (-) battery terminals connected to the vehicle frame. (Negative – Ground). Check the negative battery terminal connecting wire to make sure it also connects to the frame.
- Make sure the jumpstarter clamps get connected to correct polarity (red to positive battery terminal, black to vehicle frame for negative ground systems when jumpstarting).
- Use safety glasses to protect eyes while jumpstarting a battery.
- If the engine fails to start after two 3-second cranking attempts, discontinue jumpstart procedure. Excessive engine cranking can damage the vehicle's starter motor. Look for other problems that may need to be corrected or call for professional service.
- Disconnecting cable clamps is always done in reverse order from connection sequence (see Jumpstart Procedure below).
- Vehicles equipped with on-board computers may be affected if the engine battery is jumpstarted. Read your vehicle owner's manual before attempting to start the vehicle to determine if external starting assistance can be used.

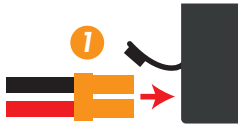
- If the iOnBoost is overloaded while in the jumpstart mode, quickly disconnect the negative then positive clamps. All functions on the iOnBoost will not operate if the unit was overloaded. To recover from overload, let the unit rest for 10 minutes then plug it into a power source for a few minutes to reset the unit.

Jumpstart Procedure

1. Turn off the vehicle ignition and all accessories (radios, lights, air conditioners), and disconnect electronic devices.
2. Set the emergency brake and put vehicles with automatic transmission in park position.
3. Determine the polarity of the vehicle's battery terminals. The positive (POS, P, +) battery terminal usually is red and the negative (NEG, N, -) terminal is usually black. If you are unsure, first refer to the vehicle owner's manual. Make sure the negative battery terminal is also connected to the vehicle frame.
4. Insert the orange plug of the jumper cables into the iOnBoost's jumper terminal. When fully inserted, the red and green lights on the cable safety block should both flash alternately.
▲ Use only the jumpstarting clamps provided in this package. Unauthorized parts may cause serious damage or injury.
5. Securely connect the positive (+) red clamp to the positive (POS, P, +) terminal of the vehicle battery or the remote positive (+) terminal if equipped.
6. Securely connect the negative (-) black clamp to a non-moving, metal part of the engine or frame as far away from the vehicle battery as possible.
7. When the clamps are properly connected to the battery, the green light on the cable safety block will illuminate (a three-second delay is normal). When the light illuminates steady green, it is safe to proceed in these instructions. If the light fails to illuminate steady green or if any red lights illuminate, consult the troubleshooting section of this manual.
8. Place unit on a secure surface away from moving parts.
9. Start vehicle engine. Stop if the vehicle does not start after 3 to 4 seconds of engine cranking. Wait 3 to 4 minutes, then try again. If engine does not start after second attempt, discontinue cranking and consult a professional.
10. The internal safety timer will automatically disconnect the circuit after 90 seconds to prevent the vehicle battery from reverse charging the unit. Both the red and green lights will illuminate steady. If your vehicle still has not started, disconnect the cables and try the procedure again.
11. When finished, disconnect the clamps in reverse sequence of connecting procedure—first disconnect negative (black), then positive (red) clamps. Do not let the clamps touch each other.
12. Disconnect the jumper cable assembly from the unit.
13. When convenient, completely charge the iOnBoost battery.
14. Store the unit and charge adapters in a cool, dry environment, away from flammable materials. Remember to fully charge the unit every three months.

Brief Recap of Sequences for Connection and Disconnection

ORDER OF CONNECTION



1. Connect cables to iOnBoost.

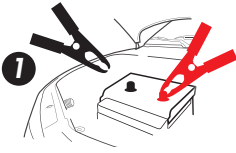


2. Connect positive (red) clamp to positive battery terminal.



3. Connect negative (black) clamp to solid metal ground on engine or frame, away from battery).

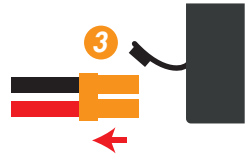
ORDER OF DISCONNECTION



1. Disconnect negative (black) clamp from frame.



2. Disconnect positive (red) clamp from positive battery terminal.



3. Disconnect cables from iOnBoost.

TROUBLESHOOTING

Jumpstart Warning Lights

The iOnBoost is ready to jumpstart when the cables are connected and a steady green light illuminates on the cable safety block. The following chart displays the combinations of warning lights that occur when the iOnBoost fails to display the ready light:

Warning lights	Type of warning	Solution
Flashing red and green lights	No vehicle battery detected Cables are not making a good connection Vehicle battery voltage too high for jumpstarting	Check cable connection. Check terminals for corrosion. Check with a mechanic for other starting related issues.
Solid red and green lights	90-second timer has expired; the smart cable has shut down	Disconnect cables from both the battery and the iOnBoost and follow connection procedure again.
Solid red light (no green)	iOnBoost charge is too low for jumpstarting	The iOnBoost needs to be recharged.
Solid red light with beep (no green)	Short-circuit	Disconnect immediately and follow proper connection procedure again.
Solid red light with pulsing beep (no green)	Reverse polarity	Disconnect immediately and follow proper connection procedure again.
Solid red light with slow beep (no green)	Reverse charge	Disconnect the iOnBoost from the vehicle battery immediately.
Solid red light with fast beep (no green)	Over-heating	Disconnect and allow unit to cool for 10 minutes.

DC POWER PORT

For proper and safe operation of the DC power accessory outlet, do not place anything into it except the plug of the accessory to be used.

Overloading the port may result in “tripping” a self-resetting circuit breaker. Removing the overload automatically restores power to the DC Power Port.

1. Insert the DC connection cable into the DC output port.
2. After use, disconnect the DC connection cable.
3. Recharge the iOnBoost as soon as convenient.

USING THE USB PORTS

If the charge in the iOnBoost is low, the USB port will shut off to prevent damage to the iOnBoost. Recharge the iOnBoost as soon as convenient.

1. Connect the USB device to the iOnBoost with a user-supplied cable.
2. Press the Power button to activate the USB ports.
3. When your mobile device is fully charged, disconnect your device from the iOnBoost.

LED FLASHLIGHT

If the charge in the iOnBoost is low, the light will shut off to prevent damage to the iOnBoost. Recharge the iOnBoost as soon as convenient.

1. Hold down the Power button for 3 seconds to turn on the light.
2. Short press to cycle through the lighting modes: 1=strobe, 2=S.O.S., 3=off or long press to turn off from any mode.
3. Recharge battery as soon as convenient.

PROPER DISPOSAL

- This product has no consumer serviceable parts.
- Do not attempt to remove or replace the battery used in this device. When the battery has reached the end of its lifetime, please take the entire unit to a battery recycling facility.