

ANTIGRAVITY BATTERIES

MICRO-START XP-15

USER MANUAL



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DANGER - WARNING!



PRIOR TO USE, READ AND UNDERSTAND THIS USER MANUAL & SAFETY INFORMATION. Failure to follow the instructions may result in ELECTRICAL SHOCK, EXPLOSION, or FIRE, which may result in SERIOUS INJURY, DEATH, or DAMAGE TO DEVICE or PROPERTY. Do not discard this information.

Welcome

THANK YOU

Thank you for purchasing the Antigravity Batteries MICRO-START XP-15. The XP-15 is an ultra compact Jump-Starter, Personal Power Supply and Tire Inflator. Just charge it and take Portable Power with you wherever you go, no electricity needed. It can jump-start your vehicles, inflate passenger Car and Truck Tires, and power or charge USB Devices. It comes as a complete kit with Accessories needed for charging and use. Please read and understand this User Guide before use.

For more information feel free to Contact us.

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90248

GETTING STARTED

The XP-15 comes partially charged and should be fully charged prior to use. The XP-15 comes with a USB Type-C Charging Cable. Connect the provided USB Cable to a USB output source such as a Computer, Powerstation or your Phone Charger. You will achieve faster charging using higher Amp USB Chargers which can quick charge the XP-15.

The XP-15 is for jump-starting 12-volt starter batteries only and for charging electronics devices or inflating tires and other small items. Please read this manual completely before use.

BEFORE JUMP-STARTING ANY BATTERY

Verify that you have a 12-Volt vehicle system. The XP-15 is not suitable to jump-start any other voltage of batteries. Carefully read your Vehicle Owner's Manual on specific precautions and recommended methods for jump-starting your particular vehicle. Identify the Correct connection points for your particular vehicle. The Positive terminal is normally RED and marked by these symbols and letters (POS, P, +). The Negative terminal is typically BLACK and marked by (NEG, N, -). Often Manufacturers have a specific post, not on the battery, to attach one of the Polarities to, so review for this.

Safety Precautions



SAFETY PRECAUTIONS

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 SERIOUS INJURY, DEATH OR PROPERTY DAMAGE.

1. Do not leave the product in, or expose product to extremely high temperatures such as on dashboards or other extremely hot areas above 110°F (43°C).
2. Do not use product for any use other than intended.
3. Do not use Jump-Start Port to power devices, it is ONLY for Jump-Starting.
4. Do not Jump-Start with less than 50% on Capacity Indicator. It may not start the vehicle.
5. Do not Jump-Start more than 5 seconds per attempt (overheating may occur).
6. Do not Jump-Start more than 3 attempts in a row without allowing to cool.
7. Do not start the vehicle continuously for more than 4 times within 10 minutes. If the engine fails to start successfully within 3s after the first start, stop cranking and wait at least 1 minute to start the vehicle again.
8. Do not leave the product connected to vehicle. Remove within 30 seconds of starting vehicle.
9. Do not clamp the Red and Black Clamps together.
10. Do not connect the Clamps to the battery reversely after turning on the "Forced Start" mode.
11. Do not use the product to start a vehicle while charging the XP-15 itself.
12. Do not recharge this product immediately after starting the vehicle. Let it cool for 15 minutes first.
13. Only use the provided jumper clamps to start vehicle.
14. Do not charge frozen batteries. Only charge between ambient temperatures of 33-113°F (0-45°C).
15. Do not leave battery products unattended while charging.
16. Do not allow Children to play with this product. Not recommended for use by infirm persons.
17. Don't over-discharge the unit (don't let battery run out). Charge it regularly, preferably every 3 months if not in use.
18. Do not store in locations where the temperature may exceed 113°F (45°C).
19. Do not use as a replacement battery for vehicles, or as a battery charger for your vehicle's battery.
20. Do not allow the product to be immersed in water. Do not expose to rain or snow.
21. Do not expose the product to extreme heat or fire. Do not operate it in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Ensure the surrounding area is well ventilated when in use.
22. Discontinue use of product if it swells or expands, or if any cable, clamp, or cord is damaged.
23. Under extreme conditions, the battery may leak. In this case do not handle product with bare hands. If there is skin contact, wash immediately with soap and water. If the liquid accidentally touches eyes, immediately rinse the eyes with water for at least 10 minutes and seek medical help.
24. The device contains a lithium battery. At the end of the product's service life, or if the device leaks liquid, dispose of the device according to local regulations. Do not modify or disassemble.



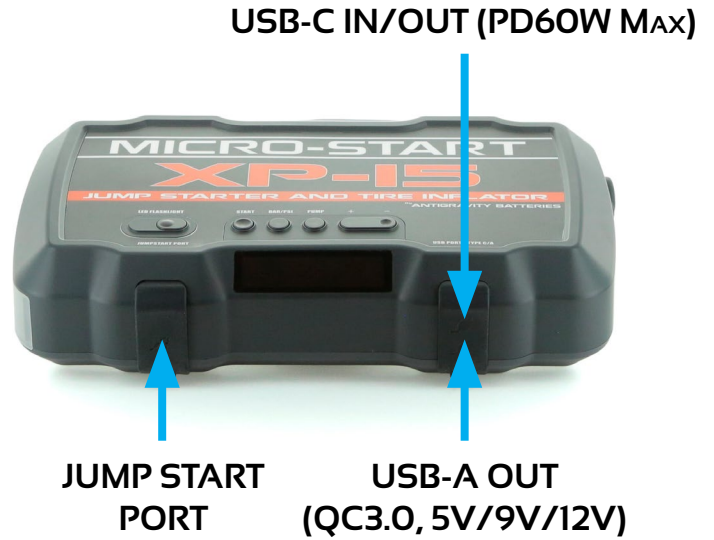
OPERATING PRECAUTIONS

1. Make sure the PLUG for the CLAMPS is plugged and seated fully into the XP-15. This connection must be good or it could overheat the unit.
2. Make sure the Clamps have correct polarity connection to battery and that all connections are clean. Remove corrosion or dirt that prevents a solid connection of clamps to vehicle battery terminals.
3. Make sure clamps have a good "bite" on Battery Terminals for best transmission of power to vehicle.
4. Make sure the XP-15 has a minimum of 50% on the Capacity Indicator lit before Jump-Starting.
5. Make sure to remove the product from the vehicle battery within 30 seconds of Jump-Starting.
6. Remove Clamps from the XP-15 when not in use.

Product Overview



DISPLAY SCREEN



USB-C IN/OUT (PD60W MAX)

JUMP START PORT

USB-A OUT (QC3.0, 5V/9V/12V)



LED FLASHLIGHT

AIR INFLATOR

FLASHLIGHT BUTTON

POWER BUTTON

BAR/PSI BUTTON

TIRE PRESSURE PRESET BUTTON

INFLATOR START-STOP BUTTON

Kit Contents



XP-15 POWER SUPPLY

AIR HOSE*

JUMPER CLAMPS



USB-A to USB-C CABLE

USB-C to USB-C CABLE

**Also includes Presta Valve Adaptor, Nozzle Adapters, Ball Needle, and Accessories Bag*

Specifications

CAPACITY: 55.5Wh

STARTING CURRENT: 1000A

PEAK CURRENT: 2000A

PRODUCT DIMENSIONS (LWH): 10.375 x 6.375 x 2.5 in (264*162*64mm)

USB-C IN/OUT: PD60W Max (5V/3A, 9V/3A, 12V/3A, 15V/3A, 20V/3A)

USB-A OUT: QC3.0 18W Max (5V/3A, 9V/2A, 12V/1.5A)

MAX. USB OUTPUT: 5V/4A (USB-A and USB-C both working/in use)

STORAGE TEMP RANGE: -4°F to 113°F (-20°C to 45°C)

OPERATION TEMP: -4°F to 122°F (-20°C to 50°C)

CHARGING TEMP: 33°F to 113°F (0°C to 45°C)

INFLATOR PRESSURE RANGE: 10-150psi (±2psi sensor accuracy)

INFLATOR AIR FLOW VOLUME: 40L/Min

FULL CHARGING TIME: About 1 hour (with USB-C 60W)

CYCLE LIFE: >1000

Product Use



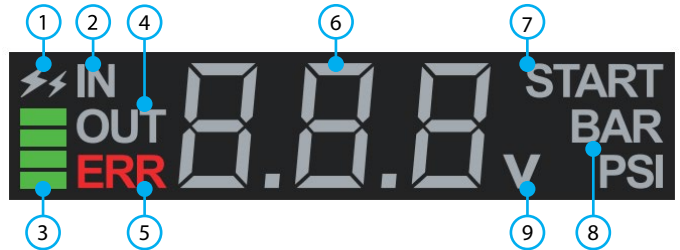
POWER ON/OFF

Press the Power Button or the LED Light button to turn on the XP-15. It will automatically turn off when not powering anything.



DIGITAL DISPLAY SCREEN

- 1) Fast-Charging Indicator
- 2) XP-15 is being recharged
- 3) LED Power Indicator
- 4) USB Output Port(s) active
- 5) Abnormal State Error Indicator
- 6) Numerical Display Area
- 7) Starting Indicator
- 8) Pressure Units Indicator (BAR or PSI)
- 9) Output Voltage Detection Indication and Units



LED FLASHLIGHT OPERATION

- Press the LED Flashlight button to turn on the LED light.
- There are 3 modes of LED light (Normal, Strobe, SOS). Cycle to the next LED pattern by tapping the Flashlight button again. It will turn off after the last pattern or you can press button for 2 seconds to force it off.

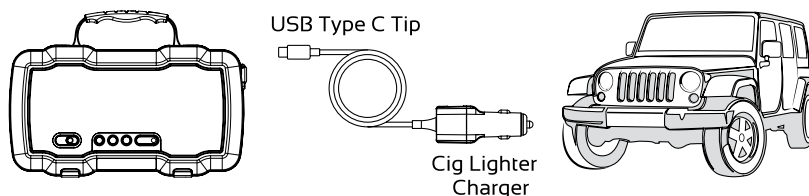


CHARGING THE XP-15 (USB-C IN)

The XP-15 can be charged by any USB Output Port such as a computer, powerstation, Home/Wall Charger or Car Charger (chargers not included). The 60W max input can only be achieved with a PD60W USB-C charger. When the XP-15 is fully charged, remove charger. Do not leave charging over 24 Hours.

- 1) Connect one end of the provided USB-C cable to the USB-C port on the XP-15.
- 2) Connect the other USB tip to your Car Charger (or other USB output source).
- 3) Plug the Car Charger into the Cigarette Charging Port of your car or powerstation.

NEVER LEAVE ANY ELECTRONIC DEVICES UNATTENDED DURING CHARGING.





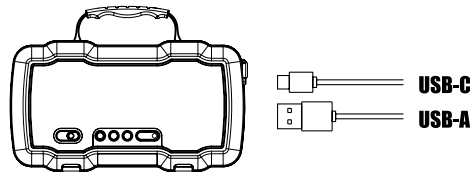
CHARGING USB DEVICES (USB-C & USB-A OUT)

The XP-15 charges a variety of USB Devices. It has one USB-C and one USB-A Quick Charge port. Two cables are included but you can also use other cables you may have.

- 1) Plug the provided USB Cable (or any standard one) into corresponding USB Output Port on XP-15.
- 2) Plug the other end of the cable into the device you are charging.
- 3) Press the Power Button on the XP-15 to begin charging your device.

DISCONNECT YOUR DEVICE WHEN CHARGED.

NOTE: The number of times devices can be charged varies depending on the size of device's battery. Tablets and Laptops have larger batteries and will use more of the unit's energy.



AIR INFLATOR OPERATION

The XP-15 has a built-in Tire Inflator and detachable Air Hose. It also includes various adapter tips so you can pump up small rafts, sports balls and more.

- 1) Connect the Hose to the Inflator Output Port on the XP-15, tightening the nut.
- 2) Connect the other end to the Car Tire (or other inflatable object, using adapter tip if needed).
- 3) Press the Power Button on the XP-15 to turn it on.
- 4) Press the BAR/PSI Button to switch the pressure unit (use PSI in USA for most applications).
- 5) Use the Preset Button to set the Target Tire Pressure value (find it on tire, or in product manual). After setting, value will flash for 3 seconds, exit the setting state and enter real-time pressure monitoring.
- 6) Press/hold the PUMP Button for 2 seconds to turn on the Air Inflator. When the tire pressure reaches the set value, it will turn off automatically. To turn it off manually, press the PUMP button.

DISCONNECT THE HOSE WHEN FINISHED.

SAFETY REMINDER: If the Target Pressure value of the tire is not set, and you directly turn on the air pump, then it will not automatically stop. You **MUST** turn it off manually. If it is not monitored in real-time, there will be the risk of excessive tire pressure or blowout. During inflation, the Inflator generates heat, especially at air nozzle. Don't touch it immediately after inflating; please leave the product for a few minutes to dissipate heat before removing the air hose.



JUMP-STARTING A VEHICLE

Caution should always be used when Jump Starting. READ ALL SAFETY INSTRUCTIONS.

- 1) Make sure all the Vehicle's Lights, Radios, Air Conditioning and Accessories are turned off.
- 2) Confirm you are connecting to a 12-Volt Battery System.
- 3) Connect the Clamps tip to the XP-15 Jump-Start Port, making sure it's fully seated.
- 4) Connect the Clamps to the Vehicle Battery: Red Clamp to Positive (+) Terminal of Battery, and the Black Clamp to Negative (-) Terminal. Or best, to the specific Jump Start Posts stated by your Vehicle's Owners Manual.
- 5) Power on the XP-15. Check it has at least 50% Capacity so you have good power for the Jump-Start.
 - A) If the Display Screen shows a "START" Icon that flashes, and the Voltage is shown, the Clamps are connected correctly. See Step 6.
 - B) If Display shows an Error Code Number, there is a PROBLEM with the connection of the XP-15 to your Vehicle's Battery, or another issue. Please Carefully review the Troubleshooting Section and correct your connection as described.
- 6) Start the Vehicle, leave it running. Once the vehicle starts, disconnect the Clamps and XP-15 within 30 seconds of starting. DO NOT LEAVE ATTACHED.



USING THE FORCED START MODE

 **WARNING: READ THIS!**

As part of the XP-15's built-in safety protection system the XP-15 will not Jump-Start Vehicle Batteries that are extremely over-discharged. In this circumstance you will need to use the FORCED START mode on the XP-15. Turning on the Forced Start mode bypasses the Safety and Protection Features to the Jump-Starter Clamps, such as the Reverse Polarity Protection and Reverse Charge Protection. Once the Forced Start mode is active the Jumper Clamps are "LIVE" with energy, so it is imperative to have the correct Polarity Connection to the battery; or damage to the vehicle, the XP-15 or other personal property could result. Use Caution before activating the Forced Start mode!

- 1) First, attempt to start the vehicle as normal as described above. If that fails after a few attempts and the Display has no Error Code, then the vehicle's battery voltage is considered too low, so you must use the "Forced Start" mode to allow the XP-15 to jump-start the vehicle.
- 2) Connect the Clamps to XP-15, but leave them disconnected from vehicle battery.
- 3) Power on the XP-15. Press and hold the BAR/PSI button for 5 seconds. When "START" Icon is Solid, you are in the Forced Start mode and the Clamps are "live" with energy.
- 4) Carefully connect Clamps to Vehicle Battery: Red to Positive (+), Black to Negative (-) Terminal.
- 5) If the Display shows the Voltage then connection is correct and you can start the vehicle.
- 6) REMOVE the XP-15 from Vehicle within 30s of starting. Press Power or BAR/PSI button to exit Forced Start.

Troubleshooting

Error Code	Cause	Solution
100	High cell voltage difference	Stop using and contact Antigravity Batteries
110	Overcharging protection	Disconnect charging
140	Low voltage protection	Connect to a charger to recharge XP-15
150	Discharge over-temperature protection	Do not use, wait until the device cools
160	Discharge low-temperature protection	Do not use, put the XP-15 in room temperature and wait for it to warm up
170	Temperature Error	Restart the unit
200	Communication Error	Restart the unit
201	Charging Communication Error	Restart the unit
310	Air Pump short-circuit protection	Restart the unit
320	Air Pump over-current protection	Restart the unit
330	When using Inflator, tire pressure is over the preset pressure value	Reset the tire pressure value
410	While jump-starting, low voltage protection triggered	Recharge the XP-15 before use
411	Before jump-starting, low voltage protection triggered	Recharge the XP-15 before use
420	While jump-starting, over-temperature protection triggered	Do not use, wait until the device cools
430	Car battery voltage is higher than the jump-starter voltage	Check XP-15 battery voltage by pressing BAR/PSI button for 5s. If lower than 12V, recharge XP-15. If over 12V then car battery's fine, or is not 12V system
440	Clamps reverse connection	Reconnect the clamps to the car battery with a correct polarity
450	Clamps short-circuit	Connect the clamps to the car battery with a correct polarity
470	Before jump-starting, cell voltage difference error	Stop using and contact Antigravity Batteries
480	Wait 30s before next jump-start	Wait 30 seconds before the next jump-start

If the problem persists, stop using the jump-starter. Contact us via phone, email, or livechat.

310-527-2330 | info@antigravitybatteries.com | antigravitybatteries.com

Voltmeter

V USING THE VOLTMETER FUNCTION

You can use the Voltmeter function by itself, without performing a jump-start. With the battery clamps connected to the XP-15 and vehicle battery, the Display will show a flashing START icon along with Voltage, meaning it's in Start mode. Press the Power Button to exit Start mode, and the icon light will go out. You are now in measurement mode showing Voltage. Disconnect clamps when you are done.

Frequently Asked Questions

1 WHAT IS THE OPERATING TEMP? CAN I KEEP THE XP-15 IN THE CAR?

This is a lithium polymer battery; its operating temp is -4 to 122°F (-20-50°C). If the ambient temperature is higher than 122°F (50°C), the internal construction of the battery cells may be damaged, it may swell and become unsafe. So don't store the device in a vehicle parked in hot weather for long periods of time.

2 HOW DO I JUMP-START A VEHICLE WITH THE XP-15?

Please refer to the instructions "Jump Starting a Vehicle" on page 7.

3 THE XP-15 ISN'T STARTING A VEHICLE WITH A VERY DEAD BATTERY?

If a vehicle's battery is below 4v the XP-15's protections system will prevent the use of Jump Starting. In this case you will have to MAKE CERTAIN the Polarity Connection of the Clamps on the Vehicle's Battery is Correct (Red Clamps to POSITIVE, Black Clamp to NEGATIVE of the Vehicle's Battery). Then you can use the Forced Start mode on the XP-15 and attempt to Start the Vehicle. Please Note: Using the Forced Start mode eliminates the Safety Features of the XP-15 and makes the Clamps alive with Energy. So it is imperative to make sure the Polarity Connections are correct or damage to your car and XP-15 will occur (see Pg 7).

4 WHAT SHOULD I DO IF THE XP-15 CAN'T CHARGE UP?

Charge it with a USB-C cable and wall charger for a full overnight period. Then try charging with another known good cable. If that doesn't work, contact us.

5 WHAT SHOULD I DO IF THE XP-15 CAN'T CHARGE OTHER DEVICES?

Try to charge the device with another charging cable. If it works then the charging cable we provided is defective and we will provide you a new one; or if it still did not work please contact us (see Warranty)..

6 HOW DO I TURN IT OFF?

The XP-15 will turn off automatically after 30s when it's not used. Disconnect Clamps and other attachments when not in use.

7 CAN THE XP-15 CHARGE OTHER DEVICES WHILE IT'S BEING CHARGED?

Yes.

8 CAN IT CHARGE OTHER DEVICES WHILE STARTING A VEHICLE?

No.

9 HOW OFTEN DOES IT NEED TO BE RECHARGED?

It is best to recharge the XP-15 when it reaches 50% remaining Capacity, so you always have a full charge and are ready for Jump Start emergencies. If the XP-15 is in storage in your Car or Vehicle, please check every 2-3 months and recharge fully as needed to keep ready for Jump Starting and charging your devices.

Limited Warranty



WARRANTY PERIOD

Antigravity Batteries LLC (ANTIGRAVITY) warrants that its products (the “Product”) will be free from defects in material and workmanship for a period of 18 months from the date of purchase (the “Warranty Period”). Visit our website for full Warranty terms and to Register your MICRO-START XP-15. The Warranty is not Transferable. The Warranty is made to the original purchaser from ANTIGRAVITY BATTERIES and “Authorized Resellers” and does NOT extend to any other persons or entities. The warranty is NOT assignable; a Warranty Claim is the obligation of the original purchaser. For Warranty details, visit:

<https://antigravitybatteries.com/warranty/>

WARRANTY ELIGIBILITY

- The Product must be purchased from an Authorized Dealer.
- The Product must be registered within 30 days of purchase.

PLEASE REGISTER WITHIN 30 DAYS.

<https://antigravitybatteries.com/warranty/registration/>



YOUR WARRANTY INCLUDES

● Lifetime Support

Contact us via phone, email or livechat for product support after your purchase.

● 30 Days Money Back Guarantee

You can return the product within the first 30 days for a full refund.

● 18 Months Replacement

If found to be defective due to manufacturing issues within 18 months we will repair/replace the unit.

Customer Service



18 Months Limited Warranty Service



Lifetime Technical Support



info@antigravitybatteries.com



<https://antigravitybatteries.com/help-center/>



310-527-2330
Mon-Fri PST 7:30am-4pm



Live Chat with Our Techs



antigravitybatteries

FOLLOW US

Attention

Be sure to follow all Safety Precautions and Operating Precautions found in the beginning of this manual.



Do Not Submerge In or Expose to Water



Do Not Disassemble



Do Not Drop



Avoid Extreme Temperatures



Do Not Place Near or Into Fire



Overcharge/discharge Protection



Fuse Protection



Reverse Polarity Protection



WARNING: Cancer and Reproductive Harm -
www.P65Warnings.ca.gov