

**ANTIGRAVITY BATTERIES**

# **MICRO-START XP-1**

**USER MANUAL**



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**DANGER - WARNING!**



PRIOR TO USE, READ AND UNDERSTAND THE [SAFETY INFORMATION GUIDE](#) AND THIS USER MANUAL.

Failure to follow these safety instructions may result in ELECTRICAL SHOCK, EXPLOSION, or FIRE, which may result in a SERIOUS INJURY, DEATH, or PROPERTY DAMAGE.

## Welcome

### THANK YOU

Thank you for purchasing the Antigravity Batteries MICRO-START XP-1. The XP-1 is an ultra-compact Jump-Starter and Personal Power Supply (PPS). Just charge it and take portable power with you wherever you go, no electricity needed. It can jump-start your vehicles, charge your USB devices (Phones, Tablets, GoPro Cameras, and more) as well as power or charge 12V and 19V devices like Mobile DVD Players and 19V Laptops. It comes as a complete kit with Carry Case. Please read and understand this User Guide and the [Product Safety Information](#) before operating the product.

*For more information feel free to Contact us.*

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### GETTING STARTED

The MICRO-START XP-1 comes partially charged out of the box and should be fully charged prior to use. Carefully read and understand the Vehicle Owner's Manual on specific precautions and recommended methods for jump-starting your particular vehicle. Make sure to determine the voltage of your system and type of battery by referring to your Battery Owner's Manual prior to using this product.

**The XP-1 is for jump-starting 12-volt starter batteries only and for charging electronics devices.**

**Please read this manual completely before use.**

### BEFORE CONNECTING TO ANY BATTERY

Before connecting to the vehicle's battery, verify that you have a 12-volt vehicle system. The XP-1 is not suitable to jump-start any other voltage of battery. Identify the correct polarity of the battery terminals on the battery. The positive battery terminal is normally RED and marked by these letters or symbols (POS, P, +). The negative battery terminal is typically BLACK and marked by these letters or symbols (NEG, N, -). Do not make any connections to the carburetor, fuel lines, or thin metal parts for grounding. These instructions are for a negative ground system (most common). If your vehicle is a positive ground system (very uncommon), follow the instructions in reverse order.

## Safety Precautions



### PERSONAL PRECAUTION

**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 direct hot sunlight, or on dashboards or other extremely hot areas above 110°F (43°C). Swelling may occur. Stop use of product if this occurs and contact manufacturer.
- 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 3 lights lit on Capacity Indicator.
- 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 allow the XP-1 to become wet; do not immerse in water.
- 8) Do not operate the XP-1 in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.
- 9) Do not modify or disassemble; there are no serviceable parts inside.
- 10) Do not use as a replacement battery for vehicles.
- 11) Do not leave the XP-1 connected to vehicle. Remove within 40 seconds of starting vehicle.
- 12) Do not clamp the Red and Black Clamps together.
- 13) Do not allow Children to play with this product unsupervised. Not recommended for use by infirm persons.
- 14) Do not leave battery products unattended while charging.
- 15) Do not charge frozen batteries; charge only between 34°F and 104°F (1°C and 40°C).
- 16) Do not subject to heat higher than 120°F (50°C) or swelling of pack could result. Discontinue use if swelling occurs.
- 17) Do not store in locations where the temperature may exceed 110°F (43°C).



### OPERATING PRECAUTIONS

- 1) Make sure the BLUE PLUG of the SMART CLAMPS is plugged and seated fully into the XP-1. This connection must be good or it could overheat the unit.
- 2) Make sure to check all the battery 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 the most power.
- 4) Make sure the XP-1 has a minimum 3 lights on the Capacity Indicator lit before Jump-Starting.
- 5) Make sure to remove the product from the vehicle battery within 40 seconds of Jump-Starting.
- 6) Remove Clamps from XP-1 when not in use.

## Product Overview



CAPACITY INDICATOR

CHARGING INPUT

JUMP-START PORT



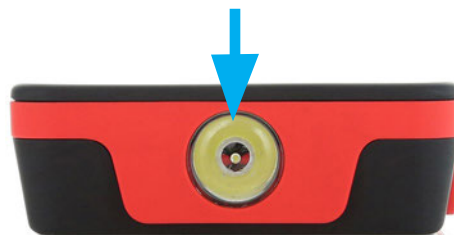
POWER BUTTON

12V

19V

USB 5V 1A AND 2A

LED FLASHLIGHT



## Kit Contents



**CARRY CASE**



**XP-1 POWER SUPPLY**



**WALL CHARGER**



**CIG LIGHTER CHARGER**



**3-INTO-1 USB CABLE**



**DC CABLE**



**LAPTOP TIPS**



**SMART CLAMPS**

## Specifications

**CAPACITY:** 12,000 MAH / 44.75 WH

**OUTPUT VOLTAGE:** 12V - 10A, 19V - 3.5A

**DIMENSIONS:** 6.75 x 3.25 x 1 INCHES

**2 USB OUTPUTS:** 5V - 2A, 5V - 1A

**CHARGE MODE:** CC/CV 14V - 1A

**START CURRENT:** 200A

**CYCLE LIFE:** 1,000

**PEAK CURRENT:** 400A

**OPERATING TEMP:** -22°F TO 120°F

**CHARGING TEMP:** 34°F TO 104°F



## Product Use

### CHECKING THE AVAILABLE CAPACITY

- 1) To check the state of charge/capacity on the XP-1 press the Power Switch. The XP-1 has a lighted capacity indicator which will show the state of charge.
- 2) Each light lit is equal to 20% capacity.

1 LIGHT = 20%

2 LIGHTS = 40%

3 LIGHTS = 60%

4 LIGHTS = 80%

5 LIGHTS = 100%



### LED FLASHLIGHT OPERATION

- 1) Press and hold the Power Button for 3 seconds to turn on the Flashlight.
- 2) The Flashlight has 3 light patterns (Normal, SOS and Strobe).
- 3) You can cycle to the next LED pattern by pressing the Power Switch again.
- 4) After the last Flashlight pattern the unit will turn off the Flashlight.

**DO NOT STARE INTO THE LED FLASHLIGHT, PERSONAL INJURY MAY RESULT.**

### CHARGING THE XP-1

The XP-1 comes with 2 chargers for charging at Home/Indoors or in your Vehicle: an AC Wall Outlet Charger, and a DC Cigarette Lighter Charger.

When charging, the indicator lights will flash one by one. The number of solid lights lit indicates the XP-1 charge level. All lights solidly lit indicates a fully charged XP-1.

- 1) To charge, plug either charger into the XP-1's Input port to begin charging.
- 2) When fully charged remove charger. Do not leave charging over 24 Hours.

**NEVER LEAVE ANY ELECTRONIC DEVICES UNATTENDED DURING CHARGING.**





## CHARGING USB DEVICES

- 1) The XP-1 can charge any USB 5V devices at 2.1 or 1.1 Amps, such as Smartphones, Tablets, GPS Devices, GoPro Cameras and more.
- 2) Plug the provided 3-into-1 USB Cable (or any standard USB Cable) into either USB output port on the XP-1; plug the other end of cable into the device you are charging.
- 3) Press the Power Switch on the XP-1 to begin charging your device.
- 4) Disconnect your device when charged.

**NOTE:** The number of times devices can be charged will vary depending on the size of your device's battery.



## CHARGING 12V AND 19V DEVICES

The XP-1 can charge or power other devices such as laptop computers and 12V accessories with its 12V and 19V ports. Both ports have a 5.1 mm female output port that accepts the provided 5.1 mm DC male-connector cable (Male DC connector on both ends). The ports are color coded for easy connection: 12V is yellow and 19V is black.

- 1) For 19V laptop charging you would plug the provided DC Cable into the 19V output port on the XP-1 and find the appropriate Laptop Tip for your brand (8 Tips are provided with the kit \*) and connect to your Laptop. To begin charging press the Power Button on the XP-1.
- 2) For 12V charging you would plug the provided DC Cable into the 12V output port on the XP-1 and you would use this DC Cable directly to your 12V device (or use your device's cable \*).

**\*NOTE:** Due to the variety of electronic devices and the number of different connector types for devices it is impossible for our kit to contain the proper connector for all laptop computers and electronic devices.

If your device uses a tip or cable that we do not include with the XP-1 you may find a compatible cable that will work with it at online electronics suppliers. Please verify with the Manufacturer of your device that the XP-1 is compatible for charging it!

**The XP-1 requires a 5.1 mm x 2.1 mm MALE end to plug into its 12V and 19V ports.**







## JUMP-STARTING A VEHICLE

The XP-1 is equipped with SMART CLAMPS that have built-in protections to prevent accidental reverse-polarity connections, over-charge, and more. But caution should always be used when Jump Starting.

**READ ALL INSTRUCTIONS AND SAFETY GUIDE BEFORE USING THIS PRODUCT.**

- 1) Make sure all the vehicle's lights, radios, air conditioning and accessories are turned Off. Confirm you are connecting to a 12-Volt Battery System.
- 2) Connect the Smart Clamps to the Battery of the vehicle: Red Clamp to the Positive (+) Terminal, and Black Clamp to Negative (-) Terminal of Battery. Remove any corrosion; ensure good connection to terminals.
- 3) Connect the Smart Clamps to the XP-1, making sure the blue connector is fully seated into the Jump-Start port.
- 4) One of the following LED Light indications will show on the Smart Clamps:

**A) GREEN LED:** Indicates XP-1 and Clamps are connected correctly. You can now start the vehicle. **Go to Step 5.**

**B) GREEN BLINKING LED:** Indicates your Vehicle Battery has very low voltage, but the connection is CORRECT. In this case you will need to press the "BOOST" Button on the Smart Clamps and attempt to start. **Go to Step 5.**

**NEVER PRESS THE BOOST BUTTON UNLESS A GREEN LIGHT IS PRESENT AND ONLY IF UNIT IS CONNECTED TO THE VEHICLE BATTERY WITH POLARITY CONNECTED PROPERLY!**

**C) RED LED:** Indicates your connection to the vehicle battery is INCORRECT. Remove the Clamps, correct the connection, and **go to Step 1.**

**D) NO LED:** Indicates there is No Voltage detected by the Smart Clamps or the vehicle's battery is below 2 volts. In this case you will need to make sure you have the clamps properly connected per **Step 2**, then press the BOOST Button. **Go to Step 5.**

- 5) Attempt to Start the vehicle. After starting your vehicle, leave it running, but disconnect the Smart Clamps and XP-1 within 40 seconds of starting. **DO NOT LEAVE ATTACHED.**

### USING THE BOOST BUTTON ON THE SMART CLAMPS:

In most circumstances you will not need to use the Boost Button.

It is intended to allow for jump-starting a vehicle when the battery has very low voltage, or no voltage reading. In these circumstances the Boost allows clamps to be energized to start the vehicle for emergency jump-starting.


#### PLEASE NOTE THE FOLLOWING:

- A)** The Smart Clamps must be connected to the XP-1 for the Boost Button to operate.
- B)** BEFORE pressing the Boost Button make sure all connections are correct. Once the Boost Button is pressed the Clamps will have "live" voltage at the clamps. Always connect the Red Clamp to Positive (+) Terminal of Battery. Black Clamp to Negative (-) Terminal of Battery.
- C)** The Boost Button will "click" when pressed correctly; you may need a pen, fingernail or edge of key to press it correctly due to being indented in the Smart Clamp housing.
- D)** Once the Boost Button is pressed you have 25 seconds to attempt your jump-start. After that time the Boost will turn off. You will need to press the Boost Button again to re-engage the Boost feature.

**DO NOT USE THE JUMP-START PORT FOR ANYTHING BUT JUMP-STARTING!**

**DO NOT LEAVE THE MICRO-START UNIT CONNECTED TO THE VEHICLE!**

**DO NOT PRESS THE BOOST BUTTON ON CLAMPS IF CLAMPS ARE CONNECTED TOGETHER. THE BOOST BUTTON IS A BYPASS AND MAKES THE CLAMPS LIVE WITH ENERGY! USE CAUTION.**



**EXTREME CAUTION MUST BE USED WHEN PRESSING THE BOOST BUTTON.** THE BOOST BUTTON MAKES THE CLAMPS "LIVE" WITH CURRENT, AND BYPASSES THE BUILT-IN SAFETY FEATURES. HIGH AMPERAGE, AND POTENTIAL FOR HEAT, SPARKS AND PROPERTY DAMAGE MAY OCCUR IF CLAMPS ARE NOT CONNECTED CORRECTLY. ONLY USE THE BOOST BUTTON WHEN CLAMPS HAVE BEEN CORRECTLY CONNECTED TO THE PROPER POLARITY ON THE VEHICLE'S BATTERY. IF YOU ARE UNSURE WITH USE CONTACT US AT:  
310 527 2330 OR  
INFO@ANTIGRAVITYBATTERIES.COM



## Frequently Asked Questions

### 1 HOW DO I TURN OFF THE XP-1?

The Micro-Start XP-1 will automatically power off when it is not powering anything. Usually in about 10 seconds. Disconnect the Clamps when not in use.

### 2 HOW MANY TIMES CAN IT CHARGE A CELL PHONE?

The XP-1 can charge the average phone about 5-7 times depending on the size of the cell phone's battery. The XP-1 has 12,000 mAh of capacity.

### 3 HOW MANY TIMES CAN IT CHARGE A TABLET?

The XP-1 can generally charge a tablet from 3-4 times. This depends on the size of the tablet's battery.

### 4 HOW LONG FOR THE XP-1 TO FULLY CHARGE?

It can fully charge from completely dead in 4-5 hours. If some charge is in the XP-1 it can charge in much less time.

### 5 HOW LONG WILL IT TAKE TO CHARGE MY CELL PHONE?

The XP-1 can charge a phone in about 40-60 minutes. It depends on the phone, but the Micro-Start does charge USB Devices fast because it has a 2-amp charge rate at one of the USB ports.

### 6 HOW MANY TIMES CAN IT START A CAR?

This depends on the size of the motor and state of charge, but modern V8s about 25 times on one charge. Note: It is NOT INTENDED FOR Diesel Motors!

### 7 HOW LONG CAN THE XP-1 HOLD A CHARGE?

On average the XP-1 can hold a charge for up to 6-8 months. This will depend on the conditions it is stored in. Heat and cold can affect this. It is best to check the state of charge at least once every 3-4 months.

### 8 CAN CLAMPS OR JUMP-START PORT POWER OTHER THINGS?

No, this should not be done. The Jumper Clamp port and clamps should only be used to jump-start vehicles with a minimum of 3 lights lit for the state of charge/capacity. Other uses such as powering other electronics through this port will ruin the device and could cause personal property damage, explosion or fire.

### 9 HOW BIG OF A MOTOR CAN THE XP-1 START?

This depends on the vehicle and how good of a connection you have to the vehicle. Modern V8 motors up to 6 Liters can be done fairly easily. Diesels are a much harder start than Gas Motors. The XP-1 is not intended to start Diesel motors. Use the XP-10 for that use.



## Limited Warranty (Non-Transferable)

### 1 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 one (1) year from the date of purchase (the "Warranty Period"). For defects reported during the Warranty Period, ANTIGRAVITY will, at its discretion, and subject to ANTIGRAVITY's technical support analysis, replace the product. 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. ANTIGRAVITY'S LIABILITY UNDER THIS LIMITED WARRANTY IS EXPRESSLY LIMITED TO REPLACEMENT (IN THE FORM AND UNDER THE TERMS ORIGINALLY SHIPPED), WHETHER SUCH CLAIMS ARE FOR BREACH OF WARRANTY OR FOR NEGLIGENCE. ANTIGRAVITY 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 limitation(s) 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.*

### 2 LIMITED WARRANTY & CLAIMS

This Limited Warranty is made to the original purchaser from ANTIGRAVITY and does NOT extend to any other person or entity and is NOT assignable; a Warranty Claim is the obligation of the original purchaser.

**THIS LIMITED WARRANTY IS VOID UNDER THE FOLLOWING CONDITIONS:**

- 1) The Product was not purchased from an Authorized Dealer.
- 2) The original purchaser fails to register the product.
- 3) The Product is misused, subjected to careless handling, or operated under conditions of extreme temperature, shock, or vibration beyond ANTIGRAVITY's recommendations for safe and effective use.
- 4) The Product has NOT been installed, operated, or maintained in accordance with approved procedures.
- 5) The Product is disassembled, altered, or repaired by anyone, except ANTIGRAVITY.
- 6) The electrical connections to the DC output, input ports, jump-start port, USB port of the product are modified without the express written consent of ANTIGRAVITY.
- 7) The Product is subject to improper storage or accident.
- 8) The Product is charged by any other charger than supplied or approved by ANTIGRAVITY.
- 9) The Product has been used outside its intended use.



## Limited Warranty (Continued)

### 3 WARRANTY DOES NOT COVER

- 1) Normal wear and tear.
- 2) Cosmetic damage that does NOT affect functionality.
- 3) Products where the ANTIGRAVITY Serial number is missing, altered, or defaced.

### 4 WARRANTY CLAIM

The Limited Warranty is void either by elapsed time from date of purchase or from the conditions listed earlier in this document. For a Warranty Claim, it is the obligation of the original purchaser to:

- 1) Complete the Warranty Claim Form; you can download the PDF version from our [Warranty](#) page.
- 2) Forward the Product, including Claim Form and Proof of Purchase, to:

Antigravity Batteries, Attn: Warranty Department  
15622 Broadway Center St. Gardena, CA 90248

**COSTS OF TRANSPORTING PRODUCTS TO ANTIGRAVITY FOR WARRANTY SERVICE IS THE RESPONSIBILITY OF THE ORIGINAL PURCHASER.**



### REGISTERING YOUR MICRO-START

You **MUST** register your ANTIGRAVITY Micro-Start product in order to validate the Limited Warranty. You can register the product Online; please visit our [Registration](#) page and submit the requested information.

## Contact Us

When you need help or have questions, our knowledgeable support team is here for you! Please feel free to call us during our Office Hours 7:30am-4pm Pacific Time, Monday-Friday; or you can write to us any time!

310 527 2330

[Info@AntigravityBatteries.com](mailto:Info@AntigravityBatteries.com)

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VISIT OUR WEBSITES FOR MORE COOL PRODUCTS, ACCESSORIES AND INFO

[ANTIGRAVITYBATTERIES.COM](http://ANTIGRAVITYBATTERIES.COM)

[THEMICROSTART.COM](http://THEMICROSTART.COM)

