

# Battery Marvel User Manual

Version 1.2

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Battery Marvel, LLC



**Thank you** for purchasing Battery Marvel! It has been constructed of the highest quality automotive-grade components to provide many years of trouble-free service. It will give you years of added confidence in your vehicle and its battery. Please carefully read this manual and keep it for future reference. This manual is also available online in Adobe® PDF format at our website:

<http://www.batterymarvel.com/support.htm>

We hope you appreciate this amazing device and tell all your friends about it.

Sincerely,  
*The Battery Marvel  
Development Team*

## Installation

Battery Marvel is designed to be installed under the hood of most vehicles, normally directly on the battery itself. If you are not already familiar, please refer to the owner's manual of your vehicle to review the location of the battery and how to gain access to it. Be sure the vehicle is off. Remove any metal jewelry that might contact the vehicle or battery.

### Tools needed

- Insulated (non-conductive) wrench
- Paper towel or cloth to clean mounting location

Locate the **positive (red, +)** and **negative (black, -)** battery terminals.

**Step 1** – If you do not have an insulated wrench available, disconnect the negative (-) battery terminal from the battery first for your safety.

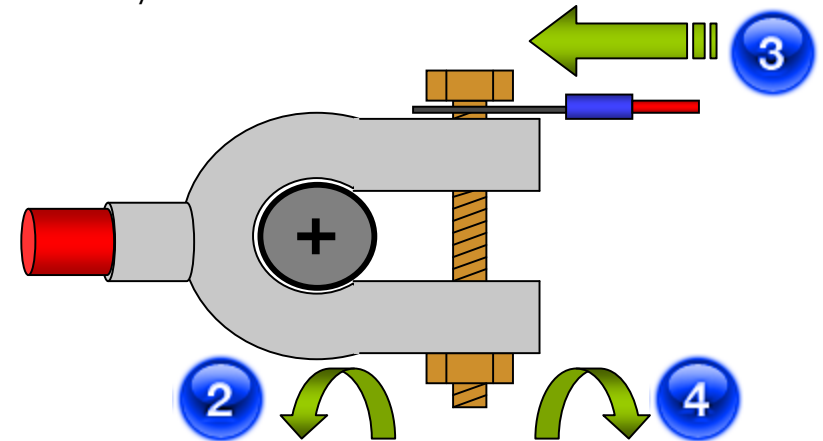
**Step 2** - Carefully loosen the nut on the positive (+) battery terminal.

**Step 3** - Without removing the bolt or terminal from the battery post, slip the spade of the red Battery Marvel wire under the head of the bolt.

**Step 4** - Tighten the nut up carefully, taking care not to over-tighten.

**Step 5** - If the negative terminal was removed in step 1, reconnect it now.

**Step 6** - Repeat steps 3 and 4 for the **negative (-)** battery terminal and the **black** Battery Marvel wire.



Once both wires are connected, you should hear a 30-second “tick-tock” countdown, followed by a few seconds of (**caution: very loud!**) audible alert. This is so you will be familiar with what an alert sounds like. If you do not hear the tick tock sound, you may have reversed the red and black. Don’t worry, just correct it and Battery Marvel will start without damage.


The Battery Marvel wires are just long enough to allow a slight bit of flexibility in selecting a mounting location. Find a suitable place on or near the battery where Battery Marvel faces outward into an open space and you can easily see the indicator LED on top of the device. Ensure that the Battery Marvel wires lay down smoothly and will not be pinched or damaged by the hood or any other moving parts. The top surface of the battery is often an ideal location. *Note that some vehicles have under-hood acoustic insulation which is designed to absorb sound – you may wish to aim Battery Marvel away from this material, if it is present.* Carefully clean and dry any dirt or grime using a paper towel. Peel off the cover of the mounting Velcro® tape on the back of the Battery Marvel case and press firmly in place.


For motorcycles and other vehicles, the installation process is the same. Just be sure you can see the indicator LED from the mounting location and that the sound isn't blocked. A video showing a typical installation is available on the Battery Marvel website.

## Operation


Battery Marvel uses a multi-color indicator LED to show the condition of your battery at a glance. If any problems are detected, you will hear a loud audible alert. Please take a moment to review the following so you will be able to understand what is wrong if Battery Marvel issues an alert. We suggest you keep this manual in your vehicle for future reference.


### Normal: (no sound)


 Solid green – Battery is charging. Charging system and battery are normal and healthy.

 Blinking green – Battery is not actively being charged at the moment, but it is well charged and healthy.

### Abnormal: (audible alert)

 Blinking yellow – Remaining battery charge is low. You should charge your battery or start vehicle soon to avoid a dead battery.

 Solid red – Charging system malfunction. Your vehicle's charging system should be checked as soon as possible to determine if there are any problems.

 Blinking red – Your battery charge is very low. You should have your battery tested (and possibly replaced) as soon as possible.

Day to day, Battery Marvel is monitoring your battery for proper performance. Very little attention is required. The most common alert, a blinking red LED after starting the vehicle, indicates that the battery has a significant loss of cranking power and that the battery may soon fail to start the vehicle. If you have an older battery, you may want to start the vehicle periodically with the hood open to confirm the LED shows solid green after starting. Once an alert is issued, Battery Marvel will continue to chirp periodically to remind you to investigate the problem. If the reminder becomes annoying, you can always disconnect Battery Marvel until you have the battery or electrical system checked, but please do not delay!

Although Battery Marvel can predict many battery failures, no device can predict all failures. Fortunately, unpredictable catastrophic failures are rare. We are confident that if you follow the instructions above, Battery Marvel will help prevent you from being stranded with a dead battery - or we'll replace Battery Marvel for free (see warranty below).

## Quick Reference

1. Green is good
2. Blinking red: Battery may be very low on charge or need replacement
3. Solid red: Charging system may not be functioning properly
4. Blinking yellow: Battery is low on charge

## Limited Lifetime Warranty

If you ever experience a problem with your Battery Marvel due to a defect in materials or workmanship, or it fails to warn you of a dead battery, just send it back to us and we'll replace it for free (excludes damage from abuse & neglect).



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[www.batterymarvel.com](http://www.batterymarvel.com)