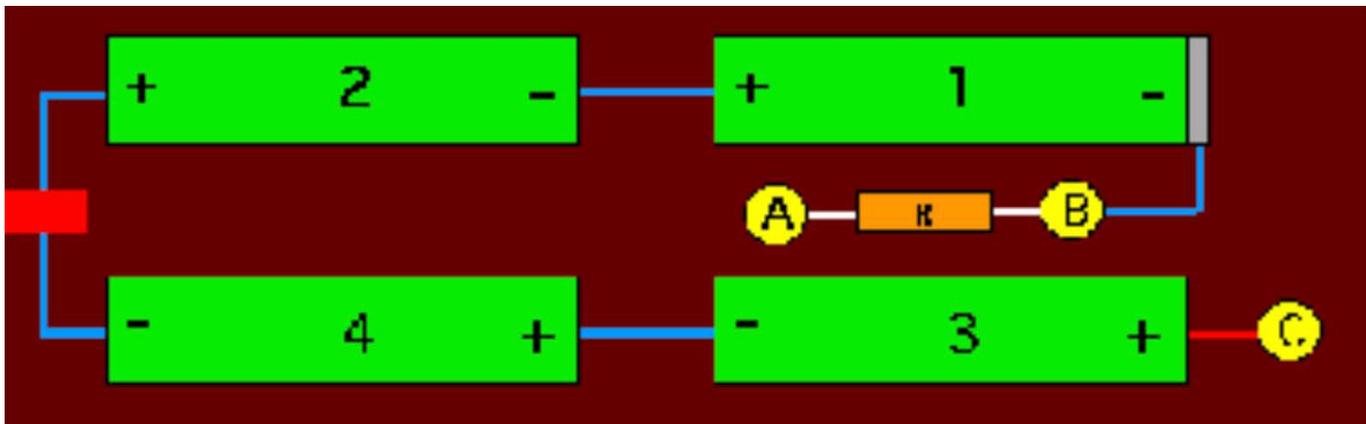




Newton 2000/2100 Battery Tray Blank



This guide will help you to build either a standard AA battery Tray or a Rechargeable Battery pack that will be detected by the Newton and recharged when the Newton is plugged in



The Battery tray has 3 built in conductive connection points, two at the bottom of the tray which are used by the newton operating system for rechargeable batteries to detect the battery temperature and the positive terminal on the side of the tray which will power the newton.



- Above is the connection diagram for rechargeable cells. Note that we include the thermistor and fuse with each battery tray purchase so you have the important components to build a rechargeable pack, these are not necessary for a standard aa battery tray.

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- Note that you need to ensure you transfer your existing terminal connection point as pictured below as well as ensuring that you solder the thermistor and run it through the circular connection point and solder on the thermistor under the areas marked in yellow tape in the photo above.
- a connection or install a spring steel terminal at the positive connection terminal.
- The 3D Printed tray has been designed so that there is ample space for the larger diameter rechargeable cells made by companies such as energizer so there will be no problem with a tight fit when inserting the pack which would then lead to it not ejecting readily when pressing the ejection button.
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As you can see above, this is how a rebuilt battery that can be recharged by the newton should look like, you should use rechargeable cells and at the top is the thermal fuse soldered in place and to the bottom center you can see the thermistor installed and taped to the cells to monitor the temperature of the cells by the newton when recharging. The thermistor is soldered to the two terminals at the bottom of the battery tray so it can be detected by the newton hardware.

Below is a photo of a standard AA battery Tray, this is what you want to mimic when you create such a tray.



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