Bondwell Replacement Battery assembly

Part	Description	Price as of 12/24/2025
Battery Holder	Holds 2x18650 Li-ion Cells	$12.99 for 5 Pack
2S 8.4v Li-ion BMS	BMS for 2x18650 cells in series	$9.59 for 8 boards
2S Li-ion Battery Meter	Gives you battery status	$9.99 for a 3 pack
8mm wide Nickel Strip	For battery terminal connection	$11.59 for 10m roll
18650 Li-ion Batteries	Will need 2 for project	$18.99 for 4 pack

Total cost for all the parts (minus the 3d printed case) will be around $64 although you will have multiple extra parts so if you make more battery modules the price per module goes down (you can make 2 with the current parts list so about $32 per module)

Assembly Instructions:

1st glue the battery holder into the 3d printed case, pretty much in the middle of it.

2nd Solder 2 of the battery holder terminals together.

3rd Solder the connected terminals to a wire about 4cm long

4th Solder this wire to the BM pad on the BMS

5th Solder one wire from what you want as the positive terminal from the battery holder to the B+ pad on the BMS and solder another wire from the negative terminal from the battery holder to the B- pad on the BMS, the wires will be around 5.5cm and 3.5cm in length

6th cut 2 strips of nickel about 4cm in length.

7th solder a 8-9cm wire to the bottom of both nickel strips

8th feed the wire through the holes at the terminals of the 3d printed enclosure

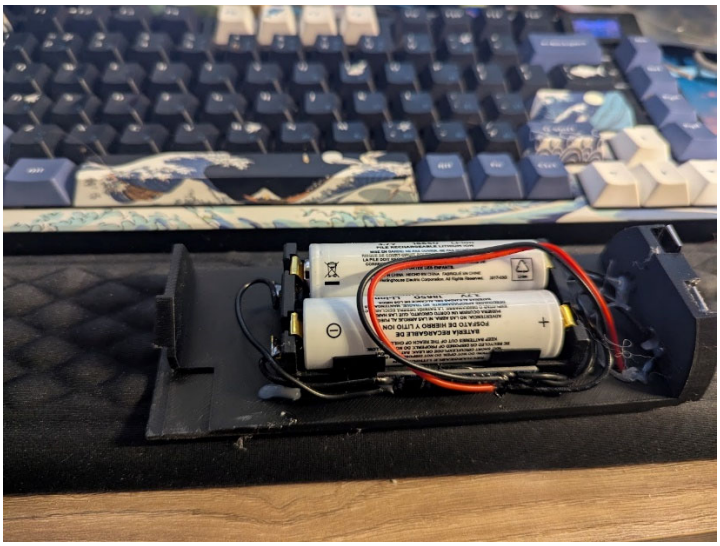
9th sold the wires to the respective P- and P+ pads on the BMS

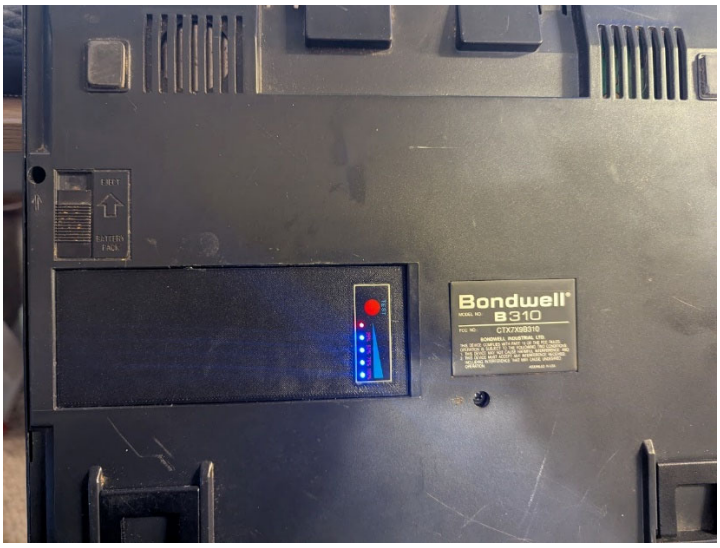
10th feed the battery meter wires through the case bottom and solder the red wire to the P+ pad and the black wire to the P- pad of the BMS

11th glue the battery meter into the cutaway at the bottom

12th glue the BMS to the side of the battery holder

13th fold the nickel strips over to make then 2x thick and then glue them into the terminal slots of the 3d printed module.




Bondwell
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