

Assembling the DKblock2 pack assembly with 2 or more modules

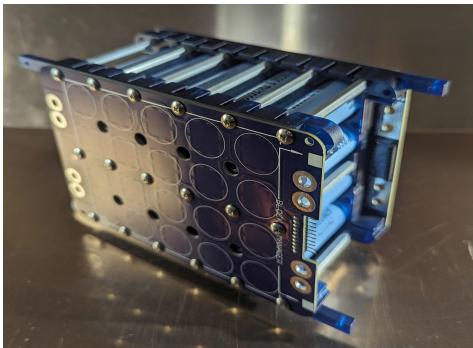
First acquire parts and tools:

1. Two or more battery blocks, you will need two for 12V and 4 for 24V nominal and so forth
2. One DK bus bar per block to connect high current paths
3. One red positive block to lug cable assembly
4. One blue block negative to lug cable assembly
5. One JK-BMS with connection boards and flat cable
6. Dewalt or Makita driver with #1 and #2 Phillips heads calibrated to 4-5 in-lbs of torque
7. BMS clips and hardware

BUILD Sheet 2 - build battery pack OSHW 12JAN24.ods
Use Build Sheet 1 for cell block builds

Now IDENTIFY your parts

Battery cell blocks (2 for 12V, 4 for 24V, etc)



JK BMS (or equivalent smart BMS) with temp sensors

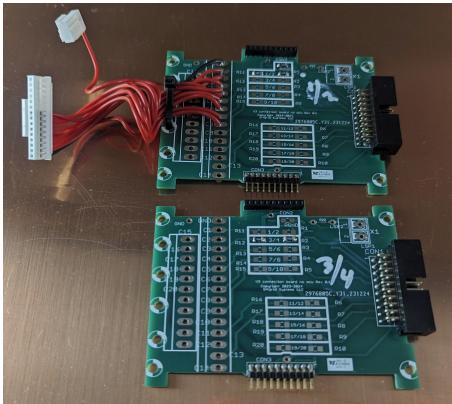


JK BMS mounting clips and screws for holding blocks together and boards

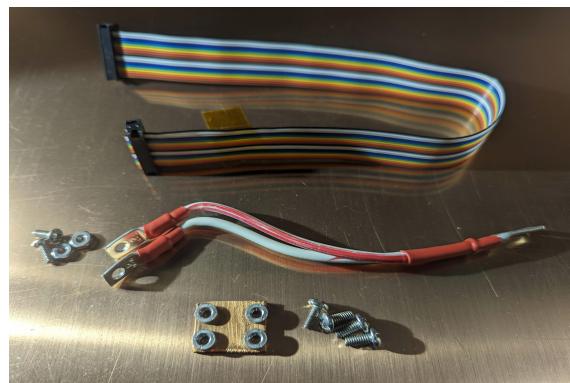


4 clips and 16ea - #2 stainless screws

DK Connection PCBs (two for 12V, etc)



Busbars and cable assemblies

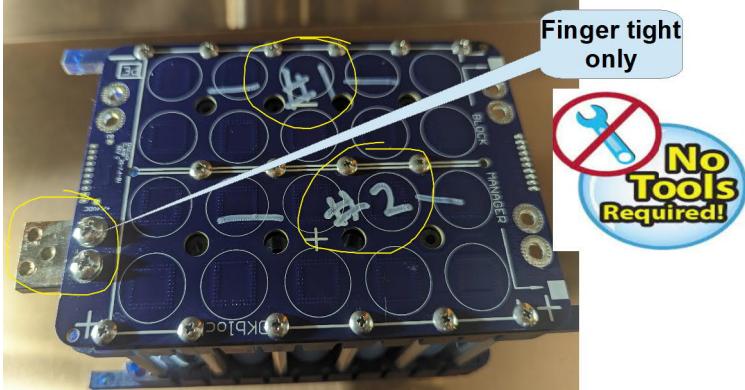


Red positive cable assembly, and flat cable
4ea 8-32 screws, 2ea 6-32 screws with nuts

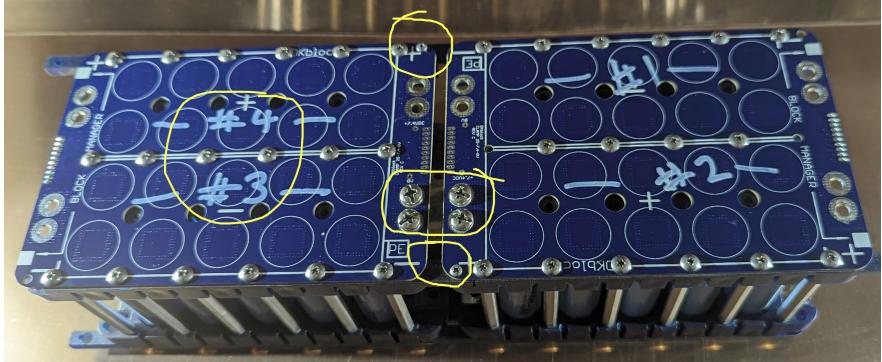
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Begin Dkblock2 pack assembly:

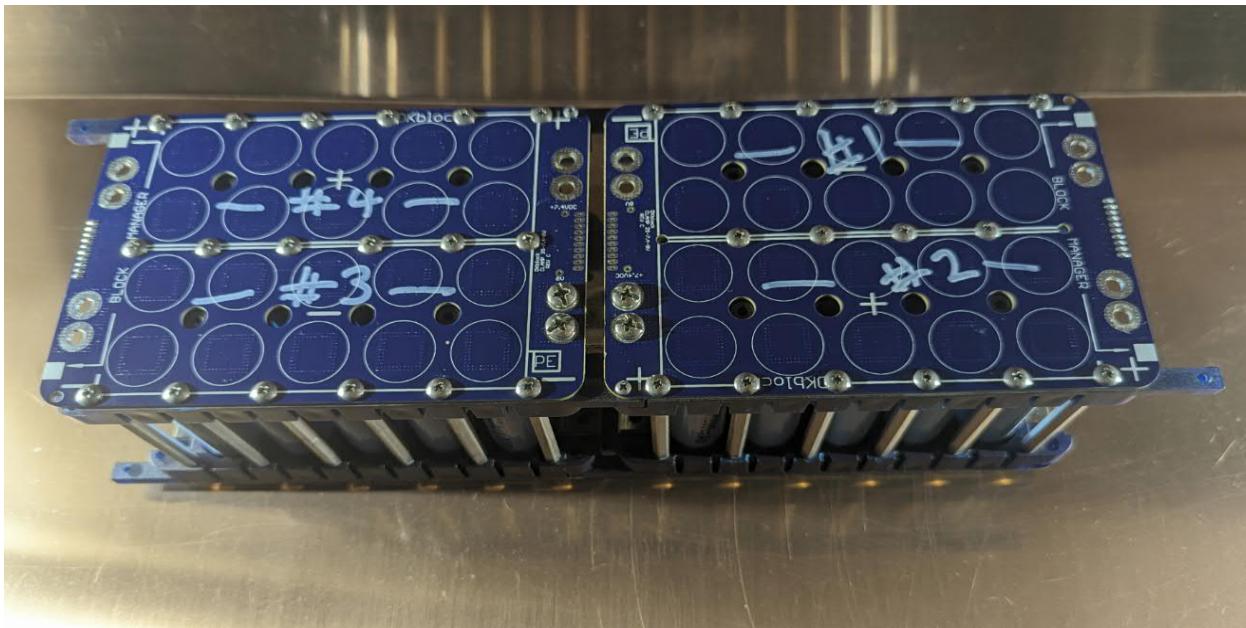
1. Begin by numbering block #1 and #2 and adding a busbar to that same block (start with any block, they are all the same at this point)



2. Add another block to first block and torque busbar with 8-32 screws
Be sure to number next block #3 and #4 and so forth for more blocks, add #2 screws

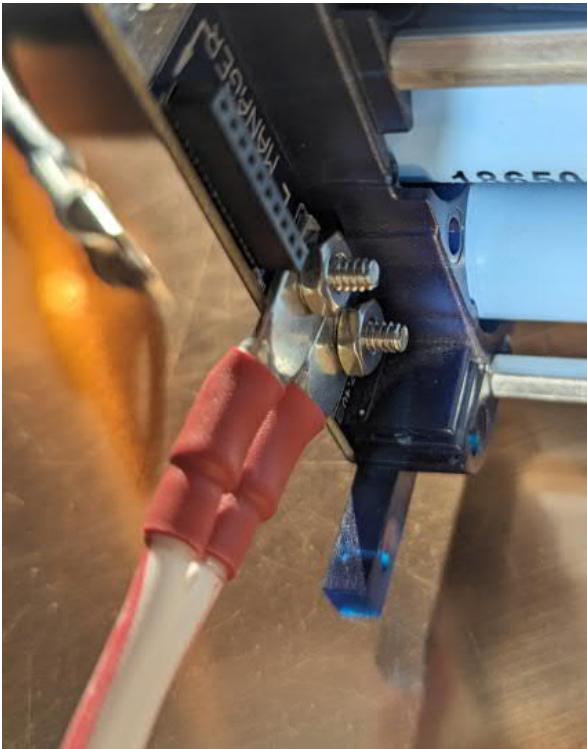


Assembly should look like this:



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1. Connect red positive cable to #4 POSITIVE connection on the block



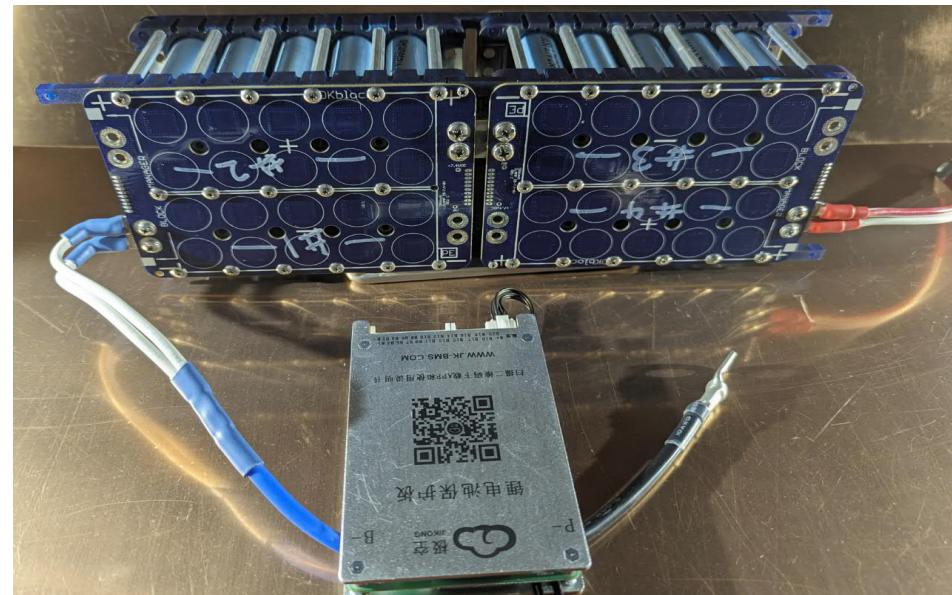
Use 2 ea 6-32 screws and nuts and torque

2. Connect the blue (BMS neg) cable to #1 NEGATIVE connection on the block



Use 2 ea 6-32 screws and nuts and torque

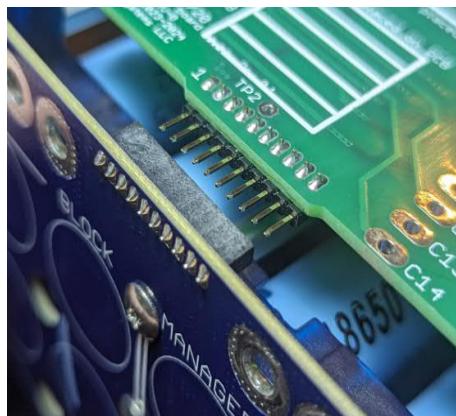
Assembly should look like this:



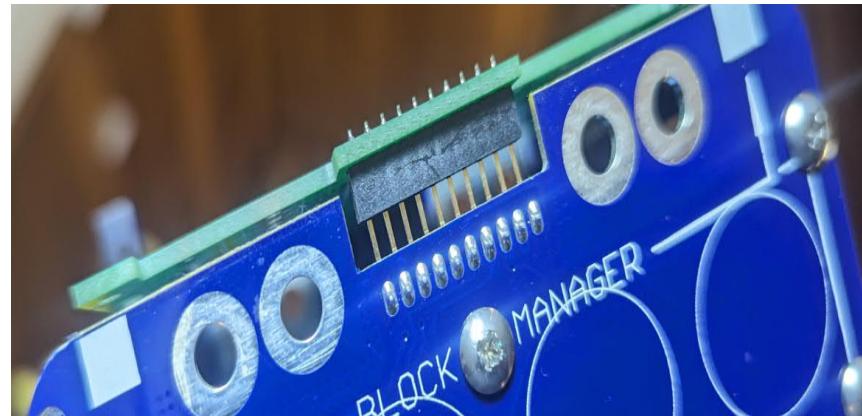
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1. Connect DK connection PCB (with BMS wires) to block #1/#2, male pins first

2. Connect DK connection PCB (with BMS wires) to block #3/#4, male pins first

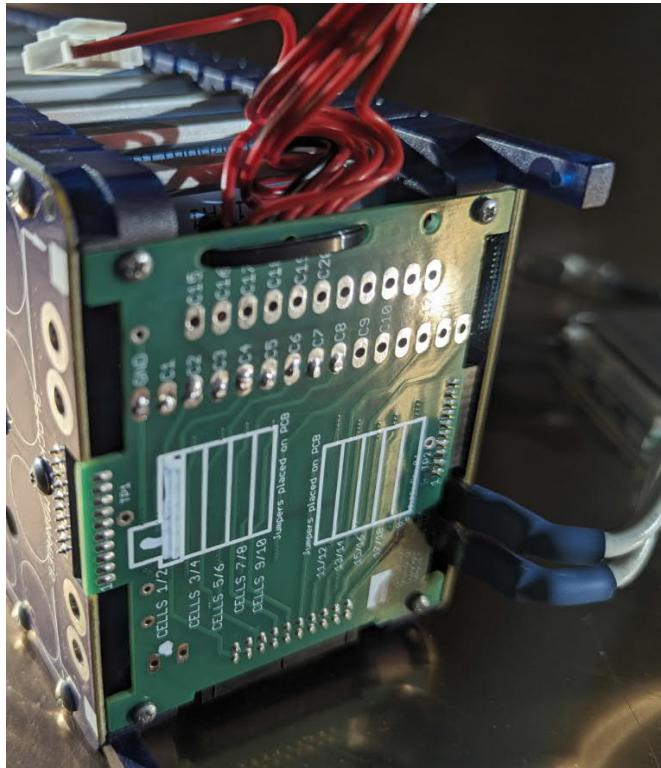


PCB male pins first



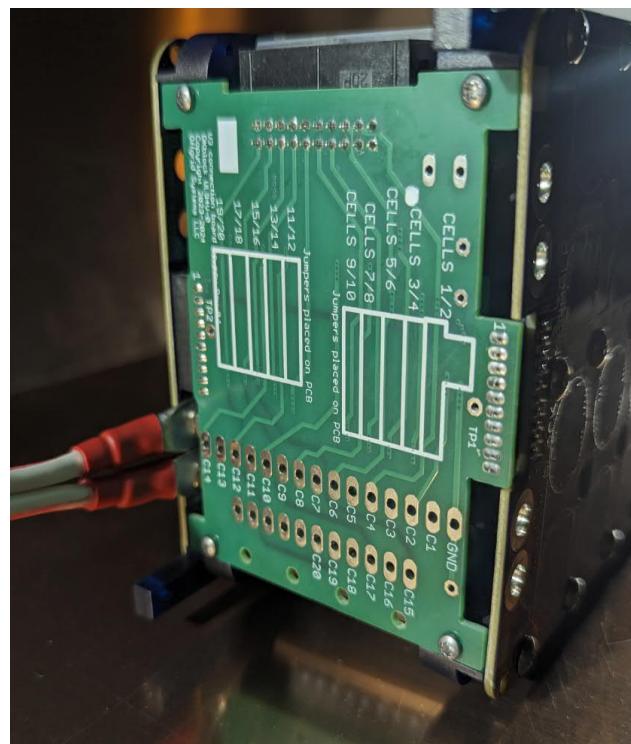
Second PCB female socket

Assembly should look like this:



Use 4ea #2 screws to hold PCB

Assembly should look like this:



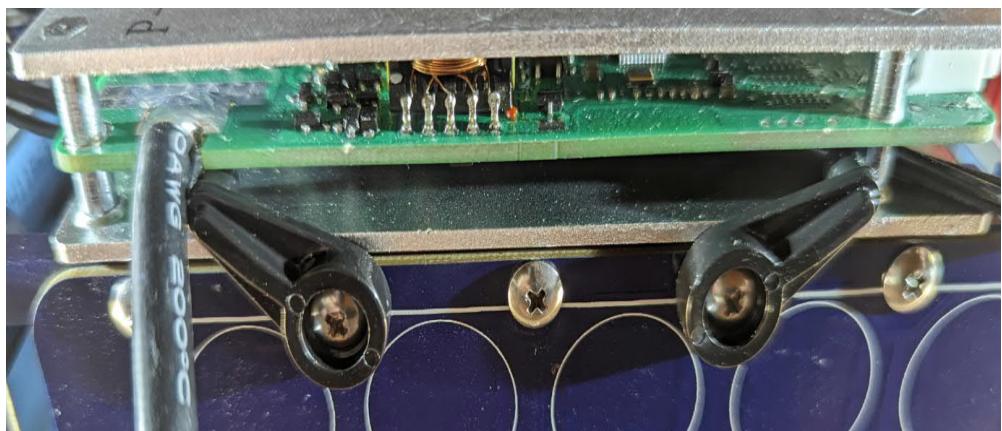
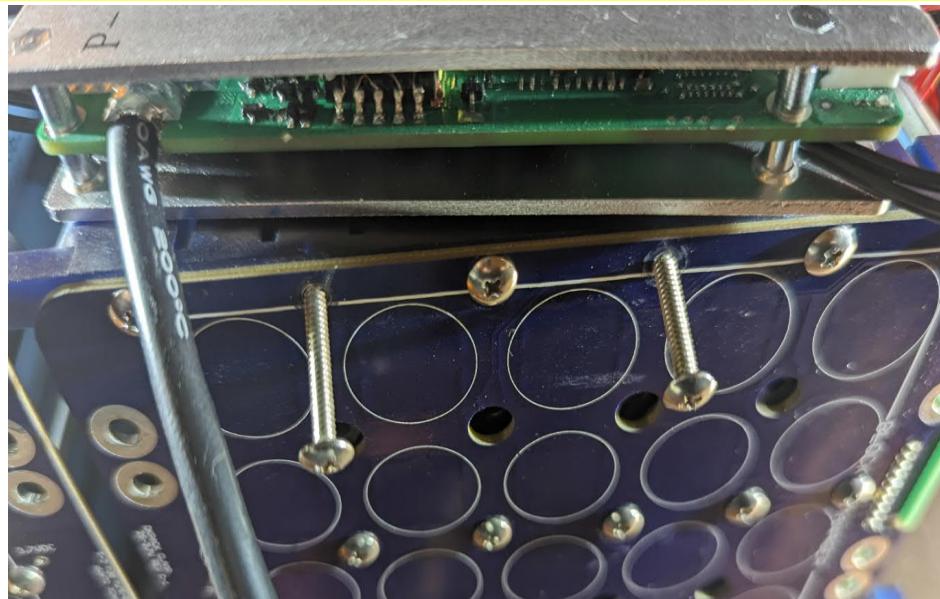
Use 4ea #2 screws to hold PCB

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1. Connect BMS wires, both connectors and temp sensors



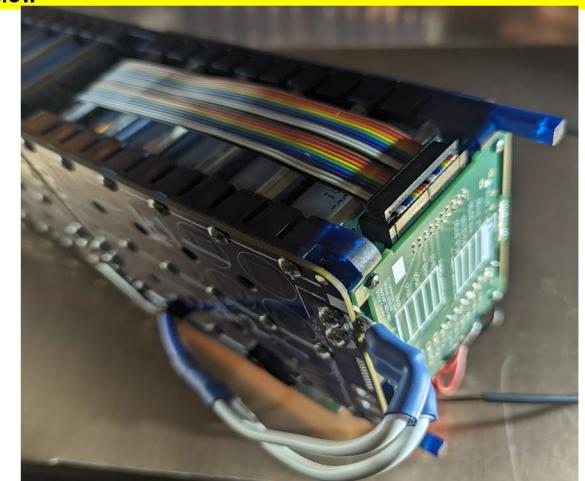
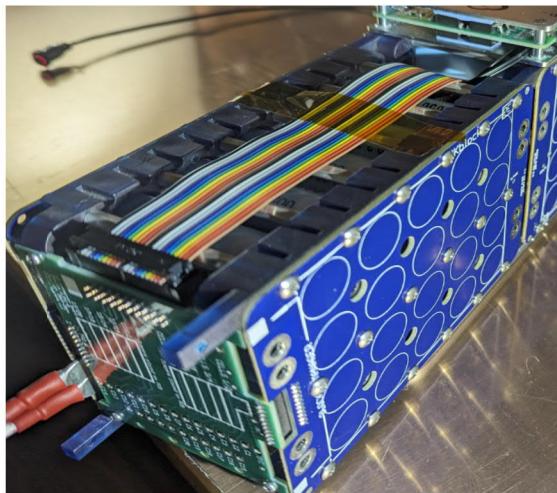
2. Remove these two screws on both sides of #1/#2 block and install clips into BMS cavities



3. Install remote connector (remote switch or LCD remote) in lower left position

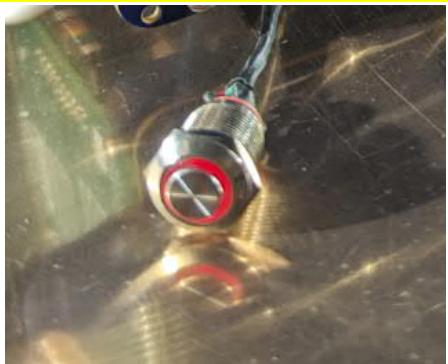


4. Plug in flat cable as shown below



Congratulations you finished the pack assembly!!!!

4. Hold remote button (or button on LCD) long press, and BMS should power up (LED blinking on BMS)



Download app from Apple or Google app store and follow directions

