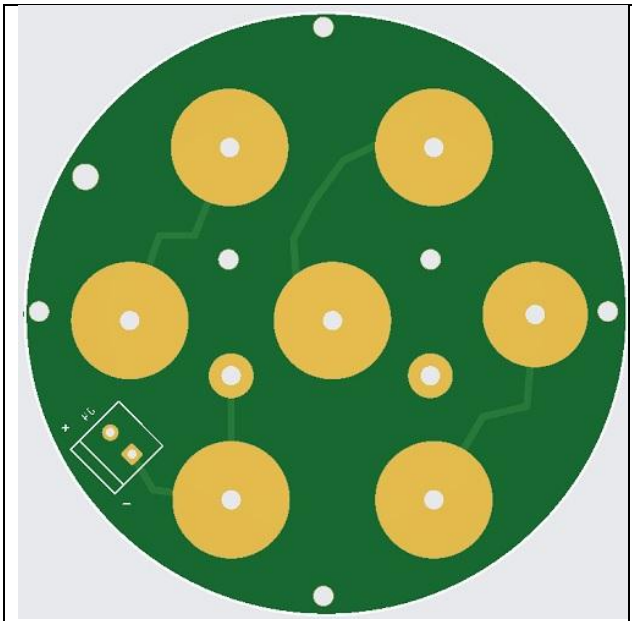
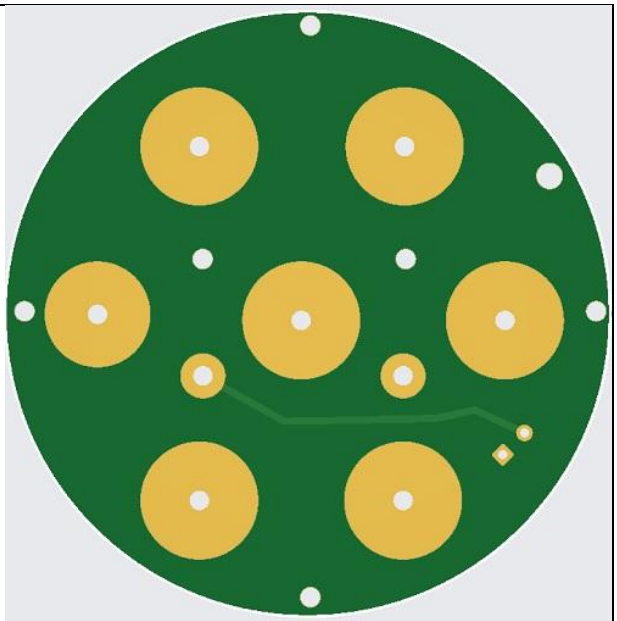
PCB: Battery Holder Bottom

The Battery Holder Assembly consists of a 3D printed battery holder tube sandwiched between two PCBs. It is held together by four brass hex spacers (110 mm) through the blank holes (2) and open vias (2). The spacers fastened through vias create a conductive pathway between the top and bottom PCBs.

The assembled Battery Holder Bottom PCB includes a screw terminal block connector for power output to the Bus Board. The board is physically attached to the Mainboard with brass hex spacers through the four mounting holes. The Battery Holder Bottom PCB can be used in both 4-inch and 5-inch diameter c-cell battery holder assemblies.



PCB: Battery Holder Bottom (front view)

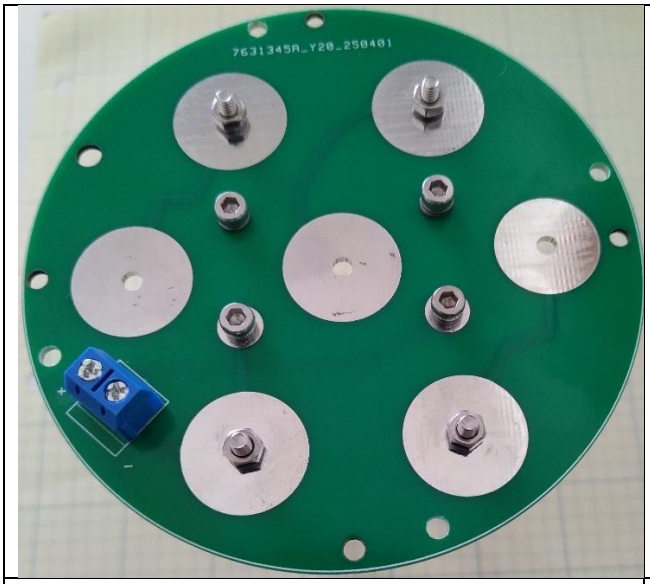
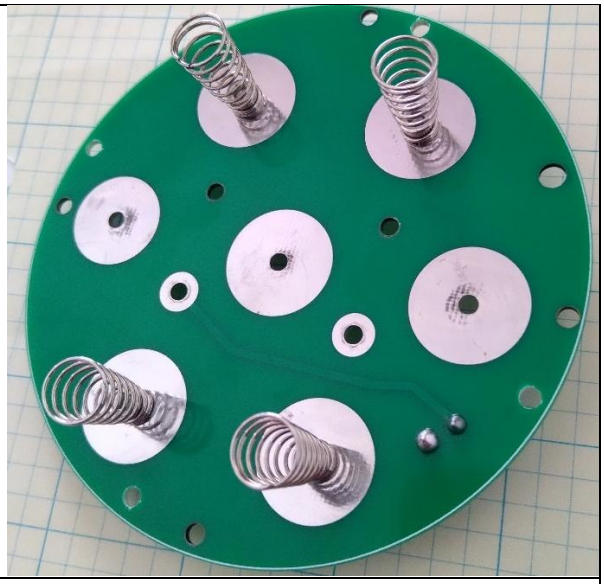


PCB: Battery Holder Bottom (back view)

Bill of Materials (BOM)					
#	*Description*	*Loc.*	*Cost*	*Qty*	*Supplier*
1	Screw terminal block connector, 2-pin, THT, 5 mm pitch	J4	$0.15	1	Amazon.com
3	Conical taper metal spring, 10x6x19 mm		$0.35	4	Amazon.com
4	M3 x 8mm stainless steel socket head screw, with locking washer and nut		$0.04	4	Amazon.com

Assembly *(approximate time: 15 minutes)**:***

1. Solder the screw terminal to the board.
2. Attach four springs to large vias (see photos below) using screws, locking washers, and nuts.

	
Assembled PCB: Battery Holder Bottom (front)	Assembled PCB: Battery Holder Top (back)