

GP-SR1-JK200-DIY KIT ASSEMBLING MANUAL



Contents

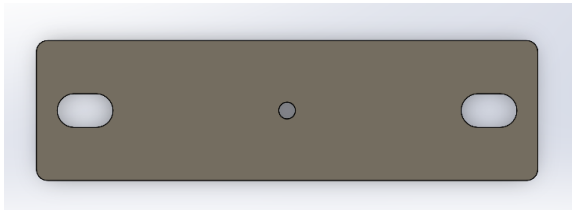
Before Assembling.....	1
GP-SR1-JK200-DIY Part List.....	3
Assemble Modules.....	17
Steps to Assemble Modules Together.....	22

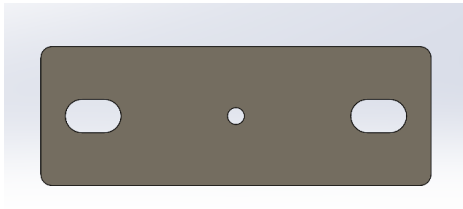
Before Assembling.

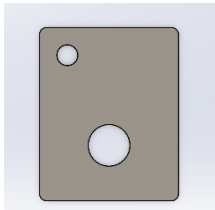
Torque Requirements:
M6: 8N.m
M8: 15N.m
M10: 15-20N.m

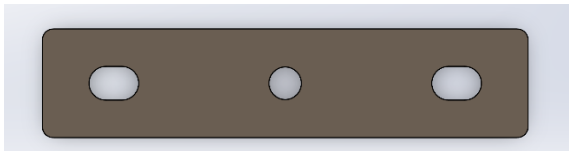
Tools Needed (Not Included):	
Phillips screwdriver (M3, M4, M5)	
Allen wrench (M6, M8)	
Hex socket wrench (M6, M8)	
Silicone thermal glue	
Anaerobic threadlocker (Optional)	

GP-SR1-JK200-DIY Part List.

No.	Part Name	Part Model
A1	280 Cell Busbar (Long)	BUSBAR-280AH-L
		

No.	Part Name	Part Model
A2	280 Cell Busbar (Short)	BUSBAR-280AH-S
		

No.	Part Name	Part Model
A3	M3 Single Hole Pad	BARSBAR-SQ
		

No.	Part Name	Part Model
A4	SR1 Main Terminal Busbar	BUSBAR-SR1-M
		

No.	Part Name	Part Model
A5	GP-SR1 Orange B+ Cable	GP-SR1-CABLE-B+



No.	Part Name	Part Model
A6	GP-SR1 Orange P+ Cable	GP-SR1-CABLE-P+

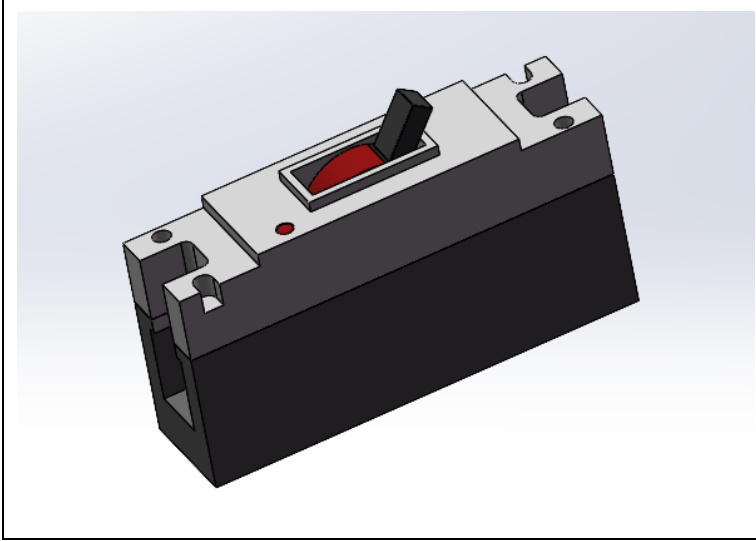


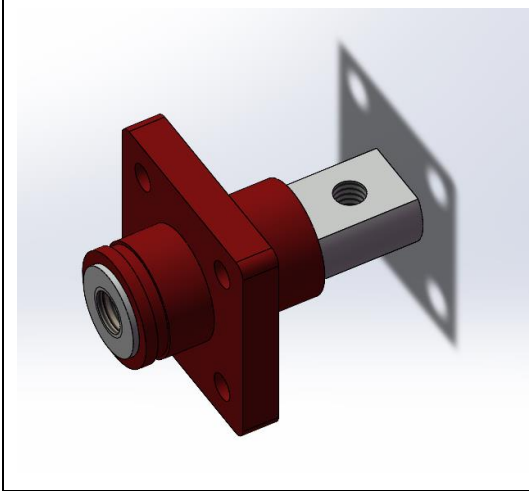
No.	Part Name	Part Model
A7-J	JK200 M6-M6 Black B- Cable	JK200-CABLE-M6-M6-B-



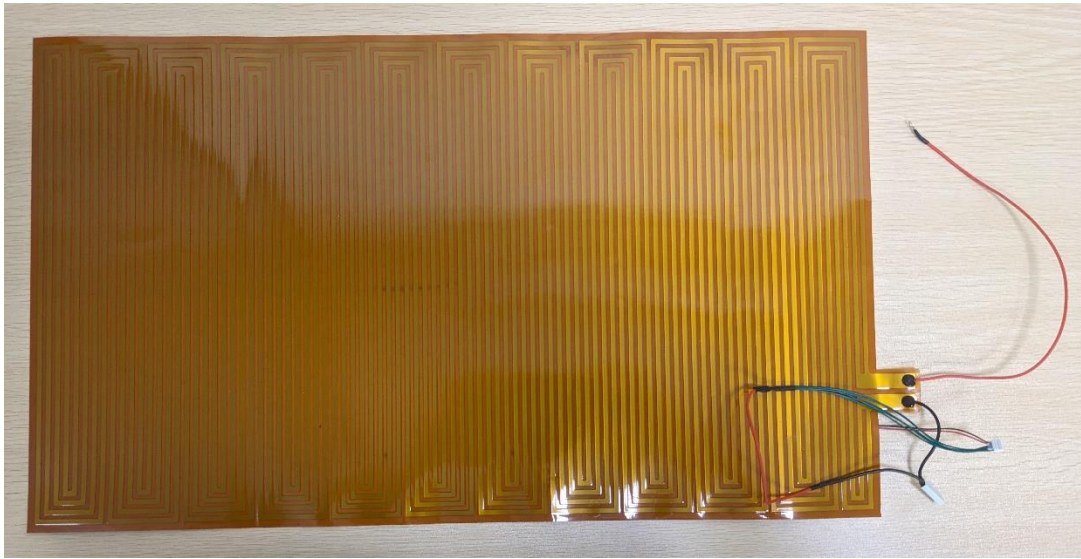
No.	Part Name	Part Model
A8-J	JK200 M6-M6 Black P- Cable	JK200-CABLE-M6-M6-P-



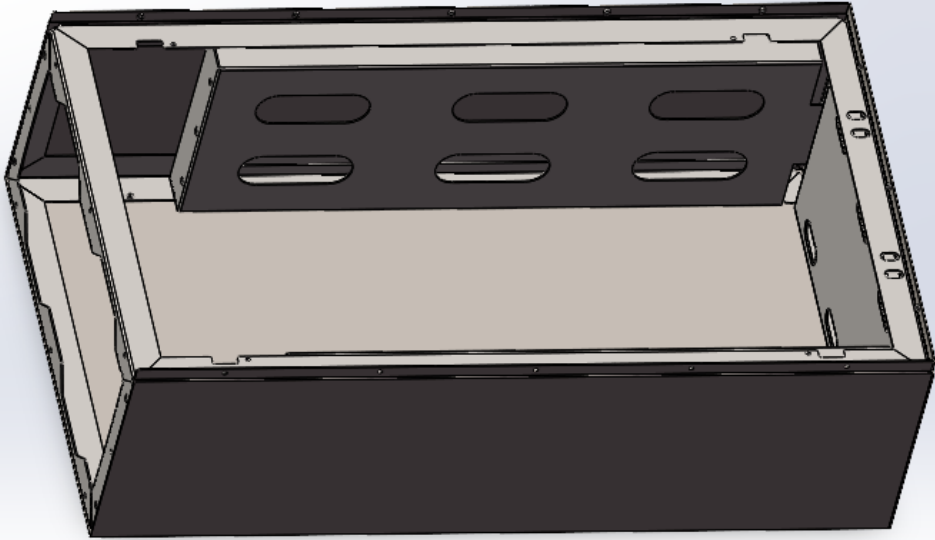
No.	Part Name	Part Model
A9	250A Circuit Breaker	YS-BREAKER-1P250A
		

No.	Part Name	Part Model
A10	M8 200A Main Terminal	TERMINAL-M8-200A
		

No.	Part Name	Part Model
A11-J (Optional)	GP-SR1-JK200 Heating Pad	GP-SR1-HEAT-PAD-JK200

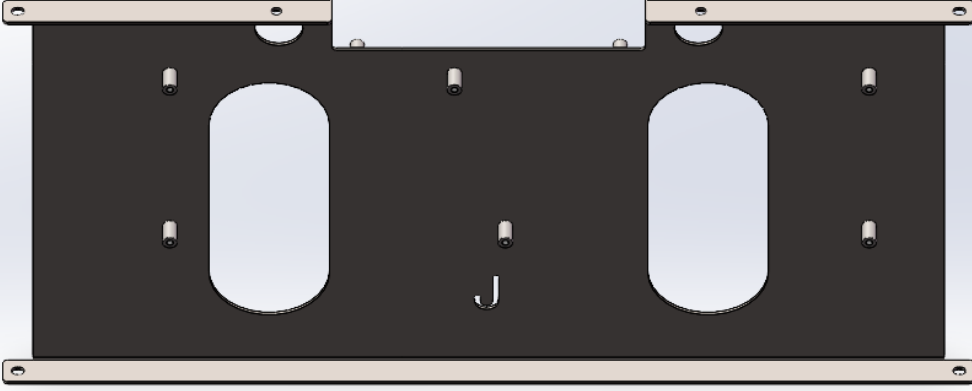


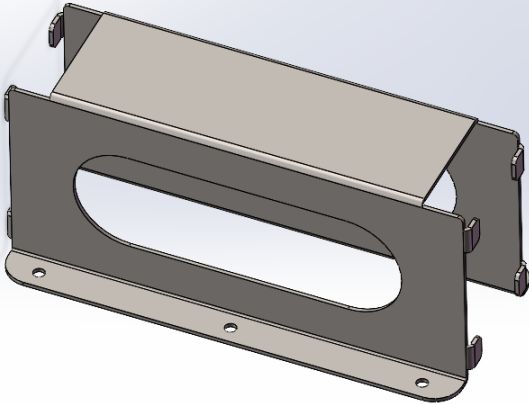
No.	Part Name	Part Model
C1	GP-SR1 Battery Case	GP-SR1-CASE-V2

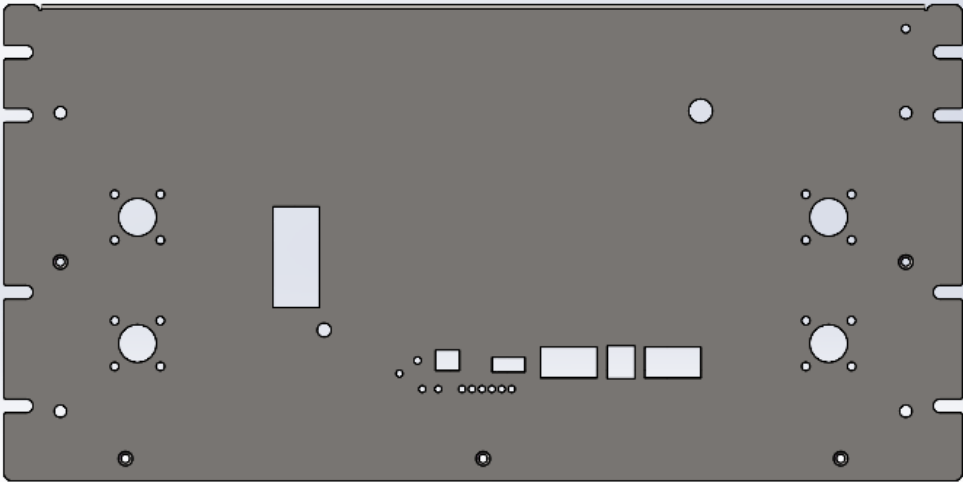


No.	Part Name	Part Model
C2	GP-SR1 Cell Compression Plate	GP-SR1-CELL-COMPRESS-PALTE-V2
		

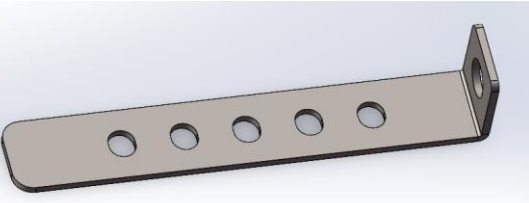
No.	Part Name	Part Model
C3	GP-SR1 Press Bar	GP-SR1-PRESS-BAR-V2
		

No.	Part Name	Part Model
C4-J	GP-SR1-JK200 BMS Mounting Plate	GP-SR1-JK200-FIX-PLATE-V2
		

No.	Part Name	Part Model
C5	250A Circuit Breaker Holder	YS-BREAKER-1P250A-HOLDER
		

No.	Part Name	Part Model
C6-J	GP-SR1-JK200 Front Panel	GP-SR1-JK200-FRONT-PANNEL-V2
		

No.	Part Name	Part Model
C7	GP-SR1 Battery Cover	GP-SR1-COVER-V2
		

No.	Part Name	Part Model
C8	Wall Mounting Bracket	GP-SR1-WALL-HOLDER
		

No.	Part Name	Part Model
D1	Silicone Cap	LMJ-SC-M8.5-19
		

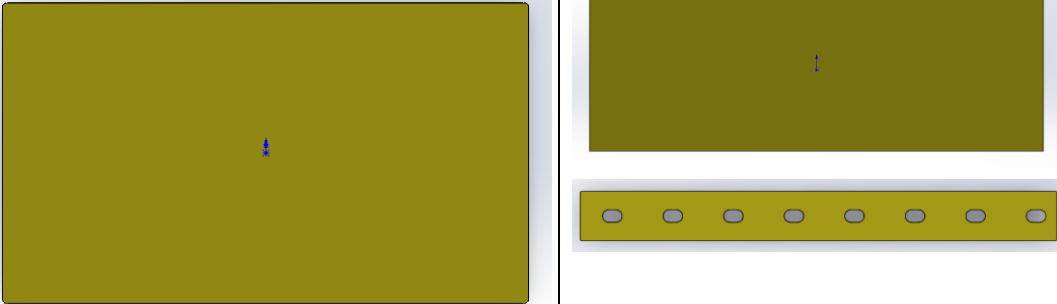
No.	Part Name	Part Model
D2-485	RS485 Cable	RS485-15
		

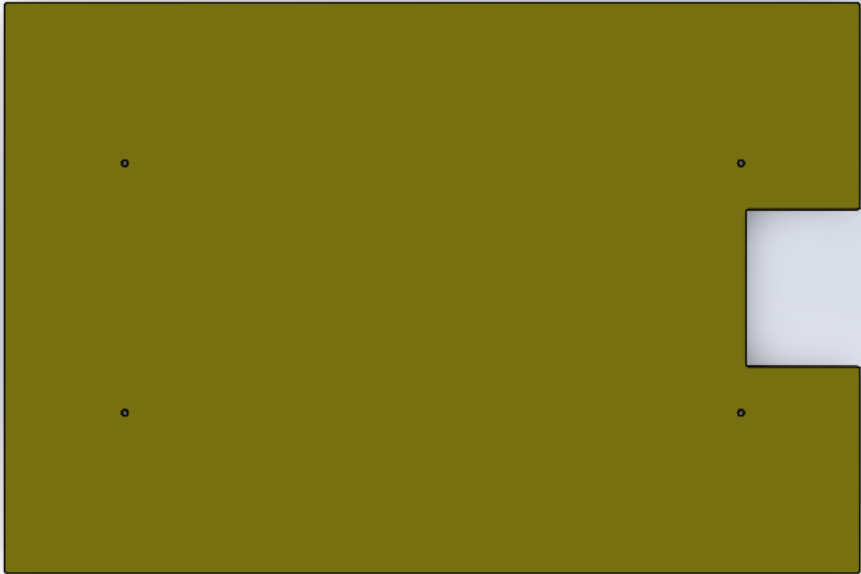
No.	Part Name	Part Model
D3	M8 200A Main Terminal Cover	TERMINAL-M8-200A-COVER
		

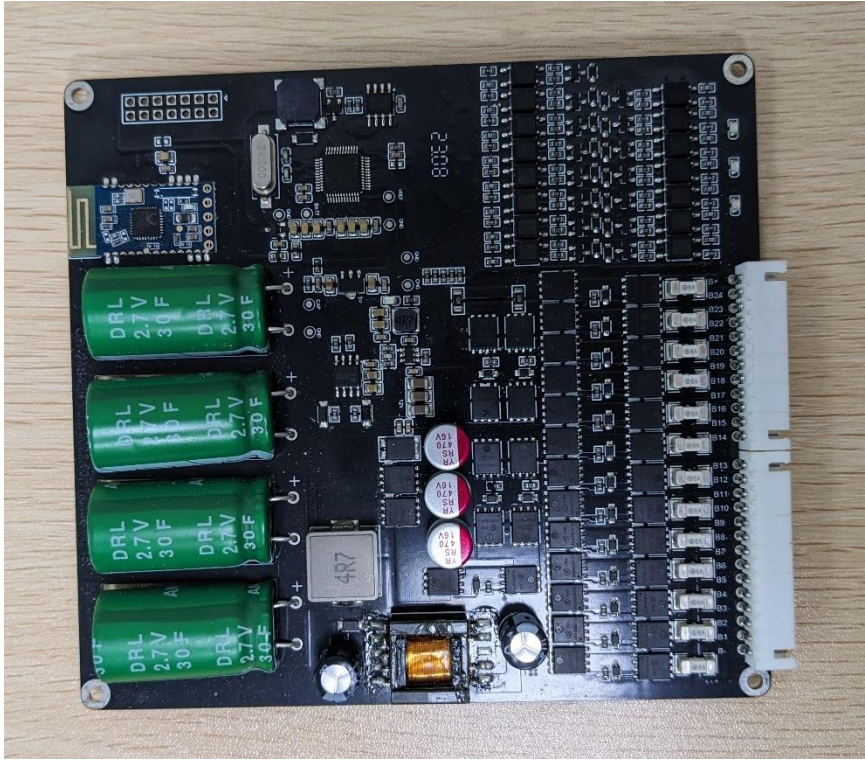
No.	Part Name	Part Model
D4	Wheel	CMCL-2IN-40KG
		

No.	Part Name	Part Model
D7	Compress Foam	FOAM-280
		

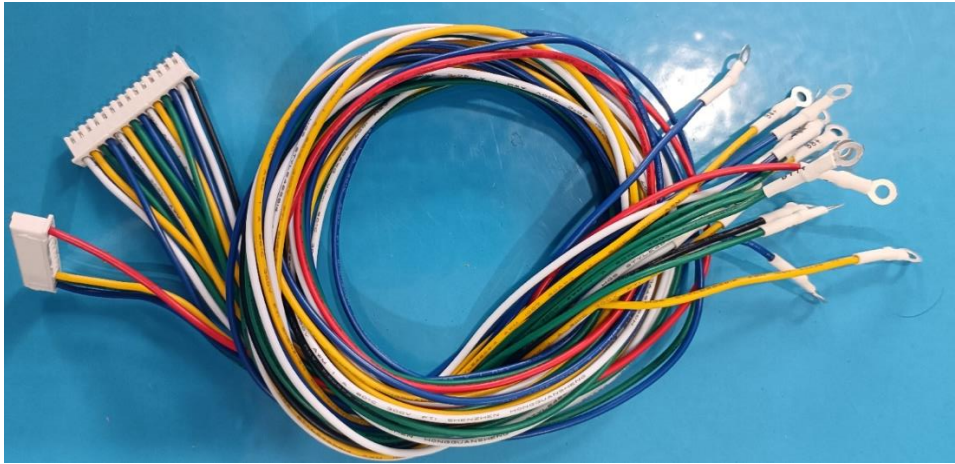
No.	Part Name	Part Model
D8	Handle	GP-SR1-HANDLE
		

No.	Part Name	Part Model
D9	Epoxy Sheet for Case	GP-SR1-CASE-EPOXY
		

No.	Part Name	Part Model
D10	Epoxy Sheet for Top	GP-SR1-TOP-EPOXY
		

No.	Part Name	Part Model
E1 (Optional)	4A Bluetooth Active Balancer	GP-AB-4A
		

No.	Part Name	Part Model
E2 (Optional)	Balancer Voltage Detection Cable	BALANCER-LEADS-4A



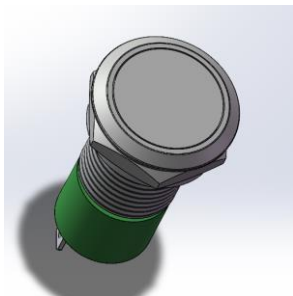
No.	Part Name	Part Model
JK1	JK200 BMS Main Board	JK-ESS-BMS-200A-MAIN-BOARD



No.	Part Name	Part Model
JK2	JK200 BMS Communication Board	JK-ESS-BMS-COM-BOARD



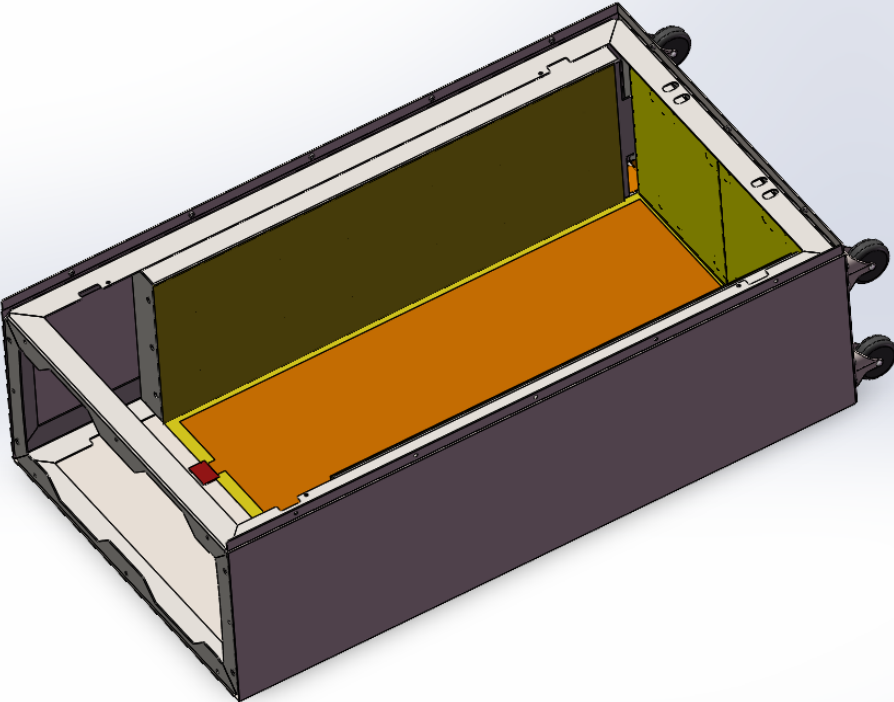
No.	Part Name	Part Model
JK3	BMS Voltage Detection Cable	JK200-BMS-LEADS
		

No.	Part Name	Part Model
JK4	M16 Low Voltage Switch	BUTTON-JK-M16
		

No.	Part Name	Part Model
F1-J	Screw Kits	GP-SR1-JK200-DIY-SCREW-KIT

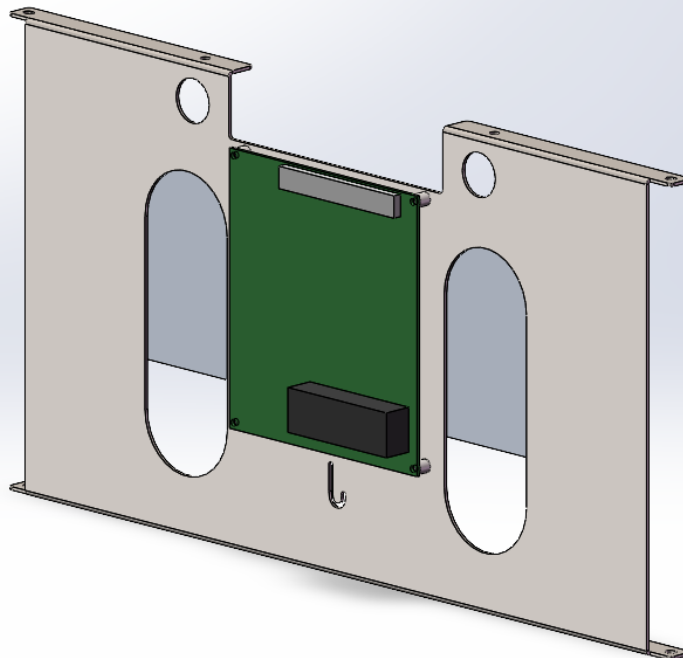
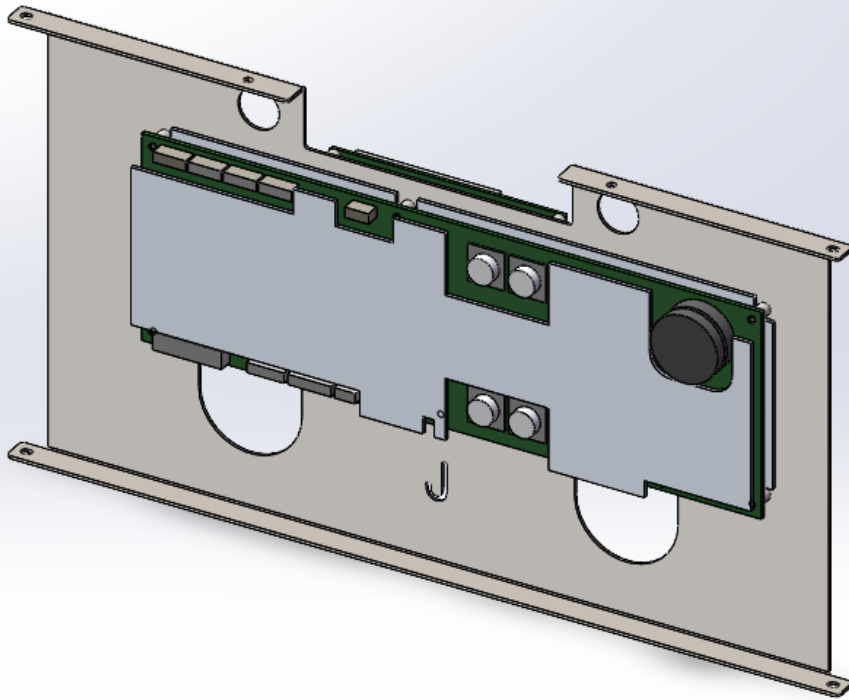
B1	B2	B3	B4	B5	B6	B7	B8
B9	B10			B11	B12		
B13	B14-J PC5						D5 D6

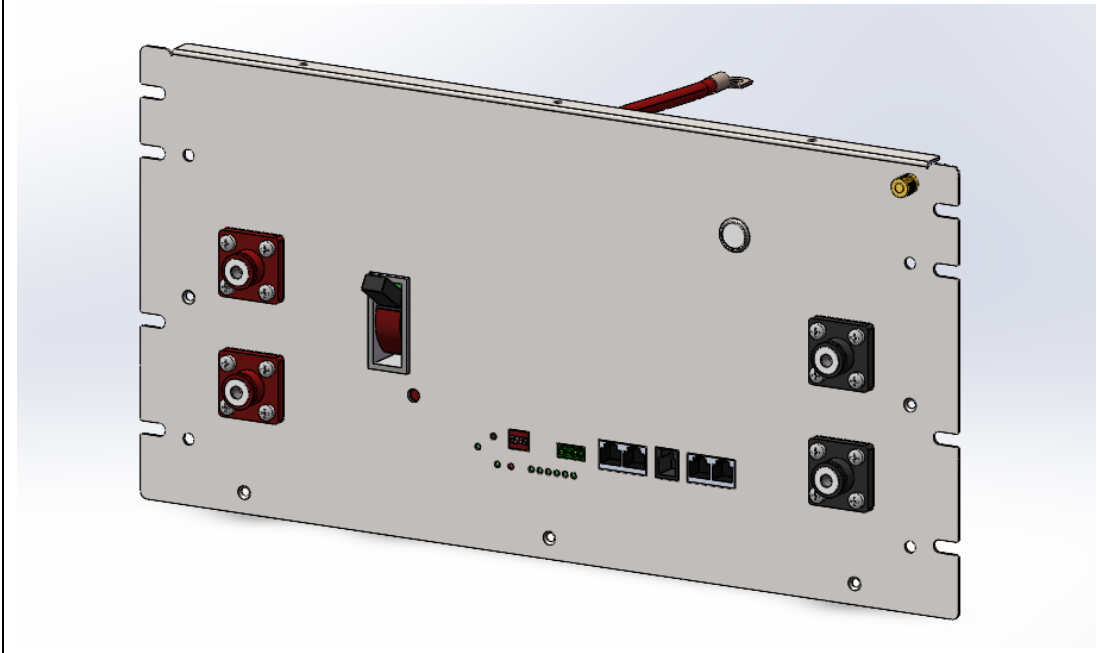
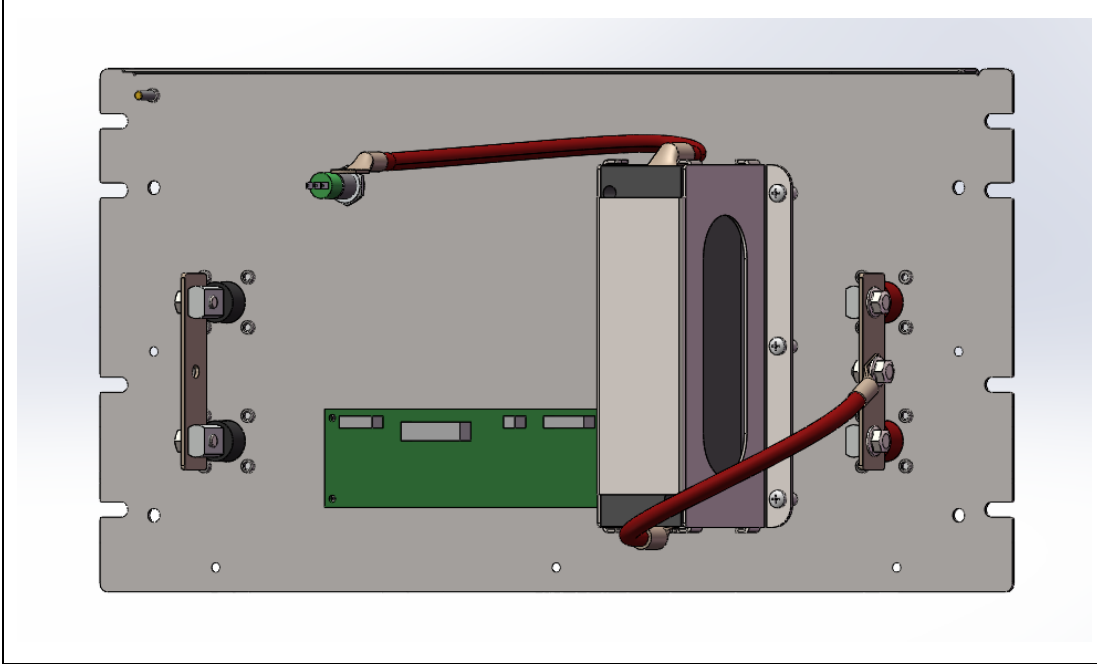
Assemble Modules.

Module 1	Parts Used	Screw Used
Case Module	A11, C1, D4, D9	B6
Put C1 on the foam as shown in the following picture. Install D4.		
		
Put Epoxy sheets (D9) around the case. Put heating pad (A11) on top of D9, use silicone thermal glue to secure the white thermal switch (KSD9700) onto the protruding part of heating pad.		
		

Module 2	Parts Used	Screw Used
Cell Module	A1, A2, A3, C2, C3, D7, D9	B4, B10, B13
Note: Cell terminal with black base is Positive.		
		

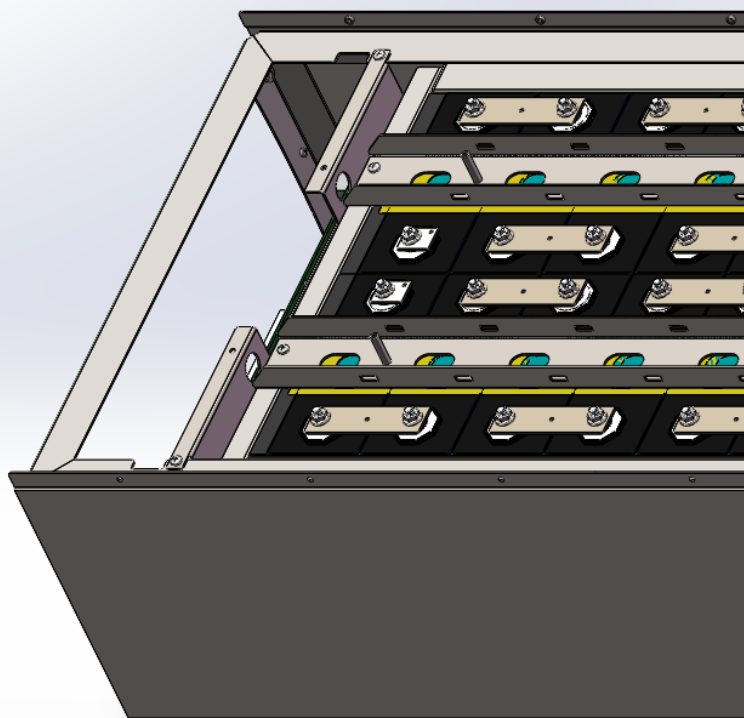
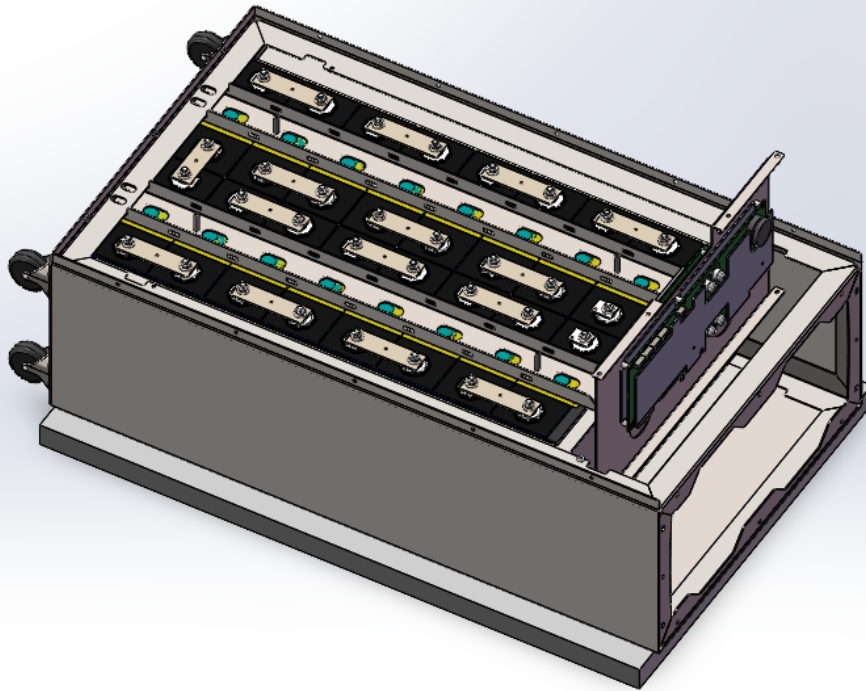
Module 3	Parts Used	Screw Used
BMS Module	C4-J, E1, JK1	B1, B14-J



Module 4	Parts Used	Screw Used
Front Pannel Module	C6-J, A4, A5, A6, A9, A10 C5, JK2, JK4	B1, B4, B5, B10, B11, B13
		
		

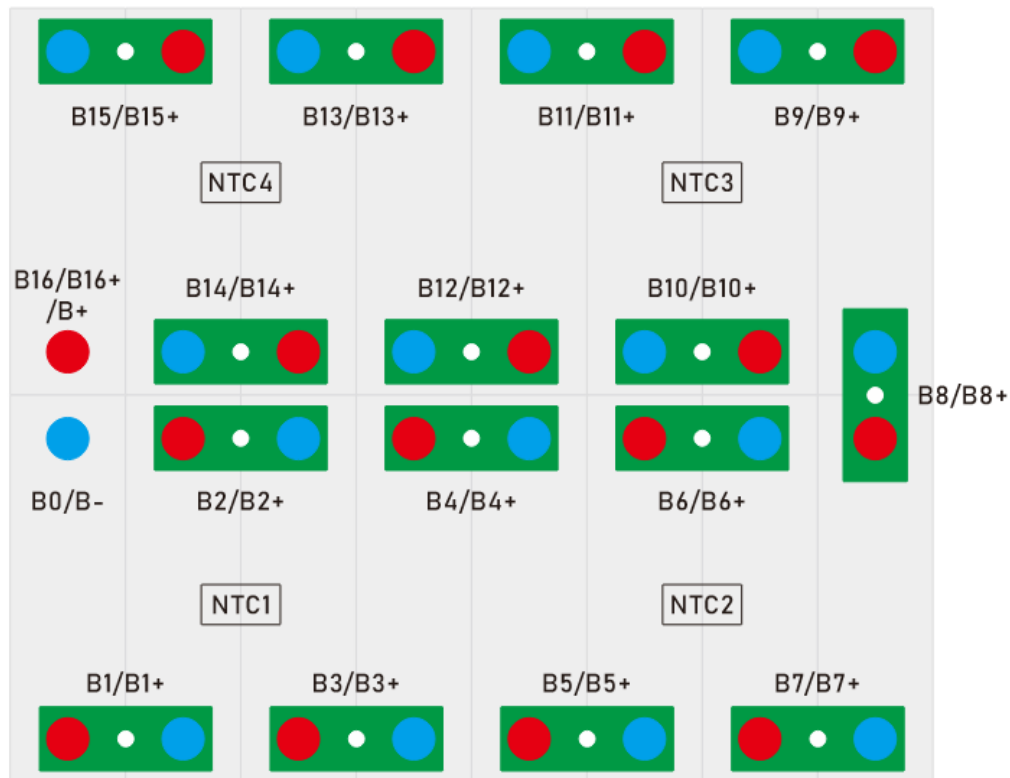
Steps to Assemble Modules Together.

Step 1	Parts Used	Screw Used
Insert BMS Module		B2, B4



Step 2	Parts Used	Screw Used
Connect Cables on Cells	E2, JK3	B1

Use silicone thermal glue to secure the NTC in place.



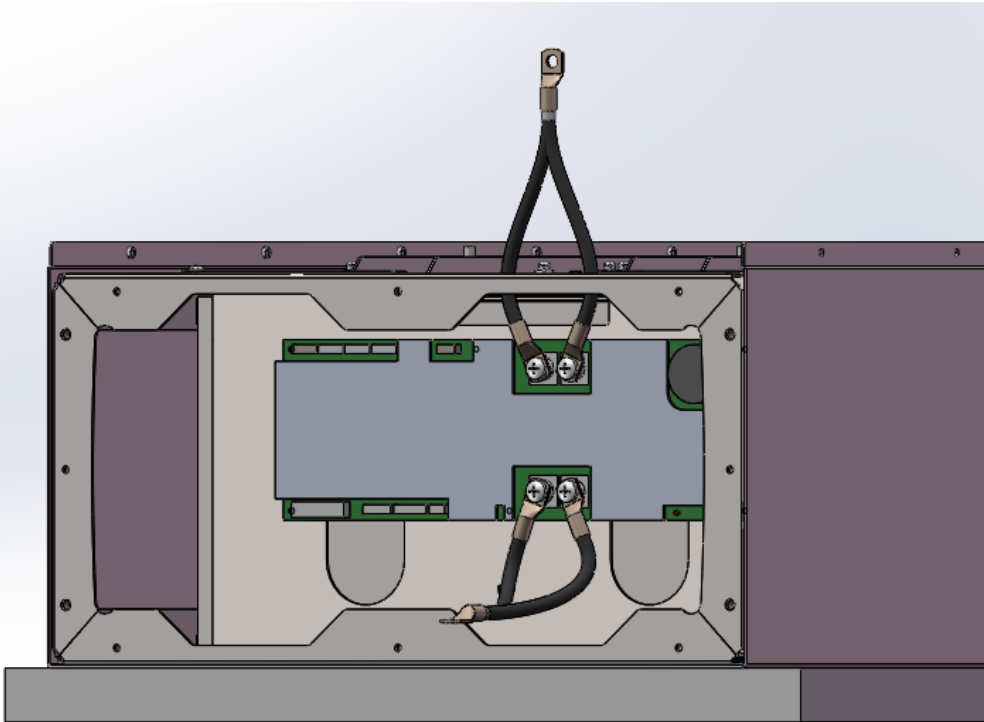
Warning:

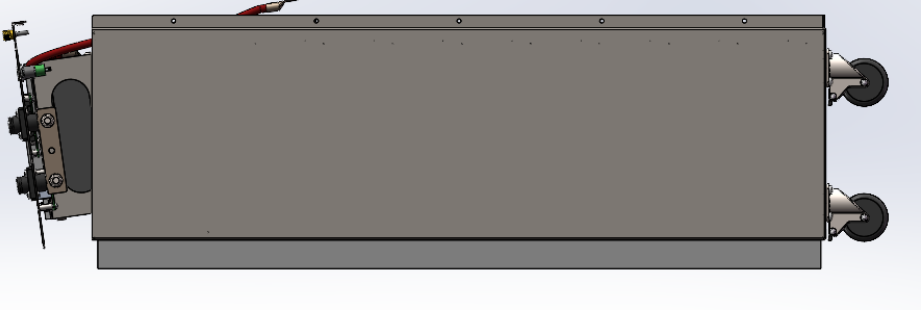
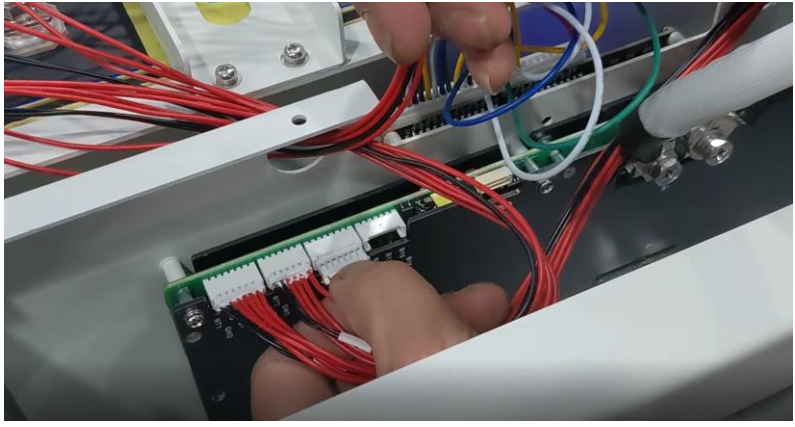
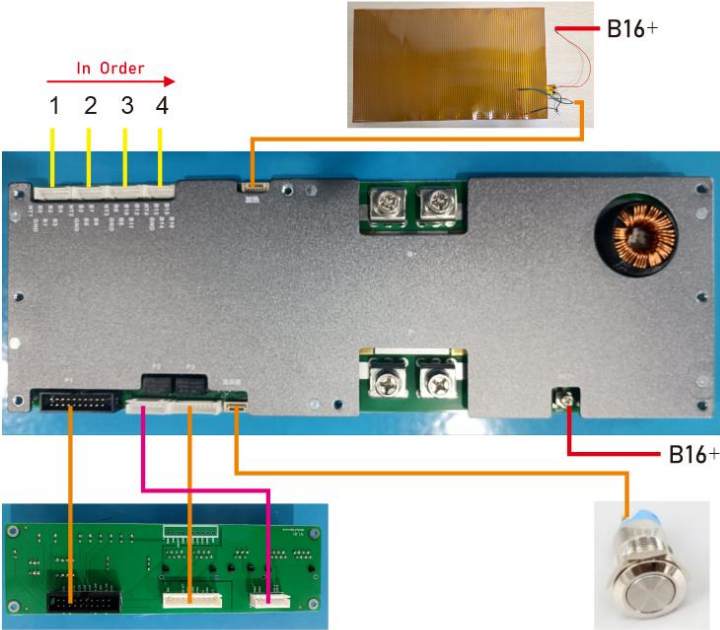
BMS cable JK3 may be labeled as:

Version 1: B0 B1 ... B8 B9 ... B16 B17 (B8 and B9 should be connected on cell 8, B10 on cell 9 and B17 on cell 16)

Version 2: B0 B1 ... B8 B8 ... B16 (B8 and B8 should be connected on cell 8, B9 on cell 9 and B16 on cell 16)

Step 3	Parts (Module) Used	Screw Used
Connect A7-J and A8-J to BMS	A7-J, A8-J	JK5



Step 4	Parts (Module) Used	Screw Used
Connect Cables to Front Pannel		B10, B13
Put Front Pannel Module close to the battery case as shown in following picture		
		
Connect A8-J to A4.		
Connect cables in BMS and Balancer.		
		
		

Step 5	Parts (Module) Used	Screw Used
Igniting	D1	B10
Connect A7-J to the cell. Connect A5 to the cell.		
		
Turn on the battery, connect BMS with Bluetooth APP and check readings.		
If APP cannot be connected or readings wrong, check connections.		

Step 6	Parts (Module) Used	Screw Used
Final Step	C7, D8, D10	B2, B3, B8
Push Front Pannel Module in place.		
Tidy up cables.		
Install Handles (D8).		
Put D10 on top of cells.		
Install the cover (C7).		
		