

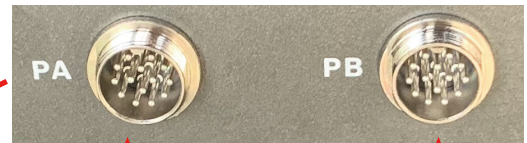


# Balance and Maintenance For 2011-2015 Sonata Hybrid Battery Pack



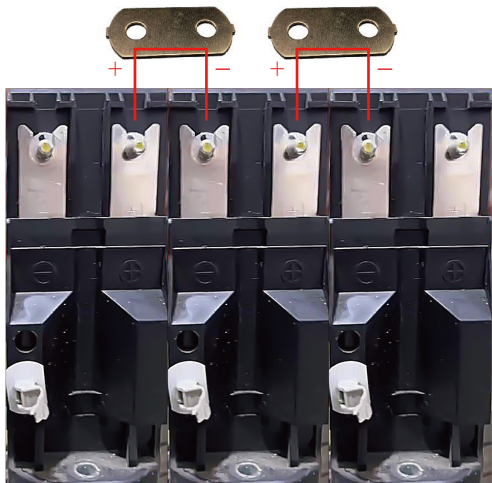
YESA Battery Power

24 series Lithium battery balance equipment



32V Sonata battery module\*3

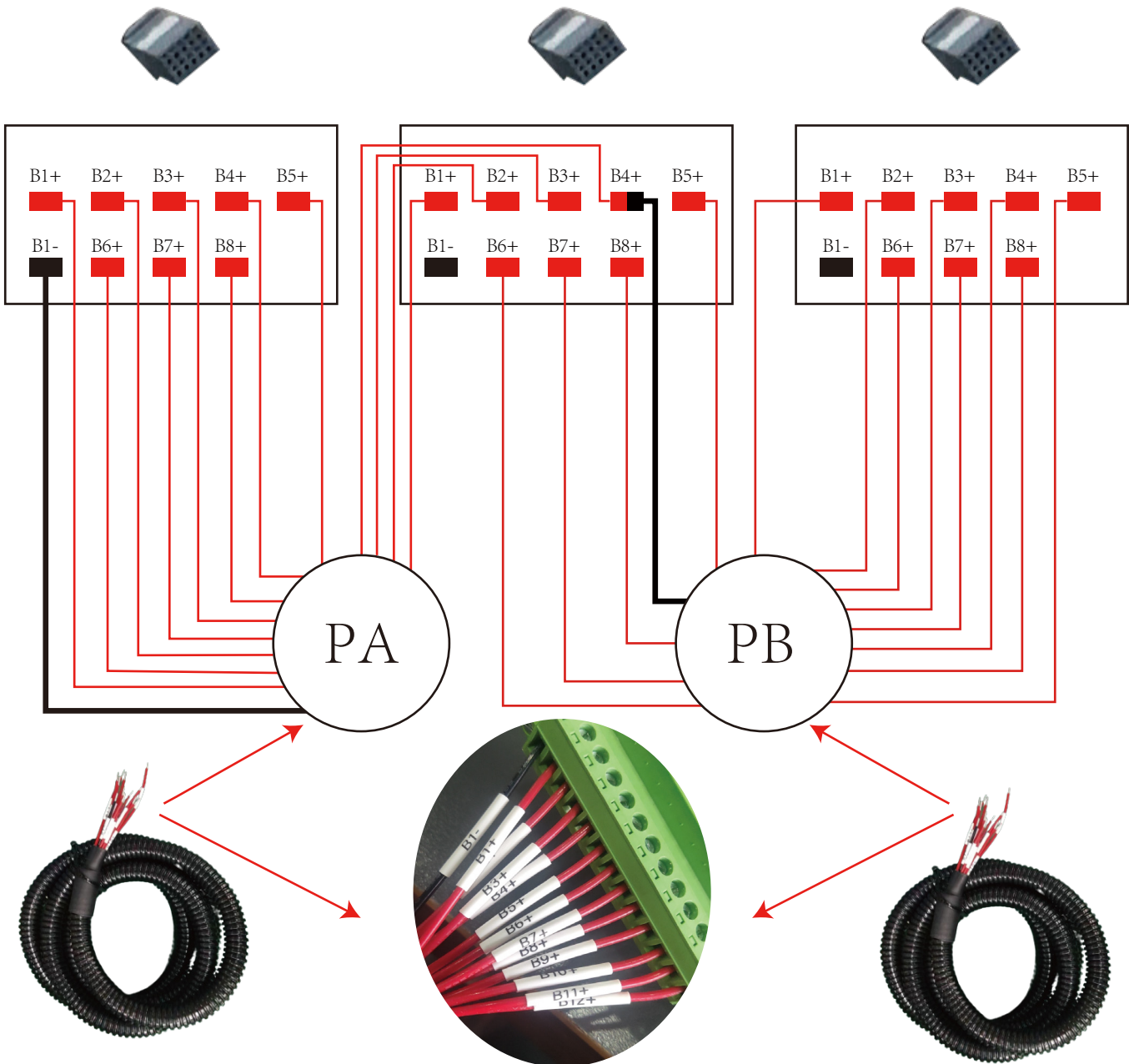
First Step: Making Three Pieces Modules Series Connection Together



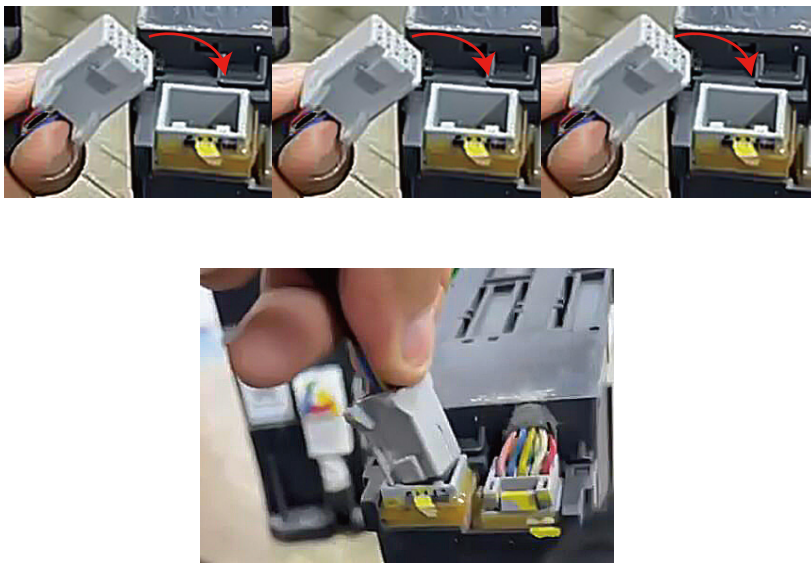
front of sonata battery module\*3

Second Step: Making Testing Tool For The Battery

⚠ Assume The following B1-, B1+, B2+B3+.....B8+, Please use multimeter to test them and confirm the detail position of B1-, B1+, B2+B3+.....B8+.



Third Step: Connect To The Battery



- Finally:
- 1. Turn on the machine
  - 2. To make a setting
  - 3. Balancing
  - 4. Finished.

Configure			
Port:	PA	PB	
Num.of Bat:	12	12	
Bat type:	NCM	NCM	
Target voltage:	LFP		3.200
Floor voltage:	NCM		3.200
Output current:	LTO		5.00
Cut-off current:	0.50		0.50
Capacity:	500		500

Select the battery Type, one key to start balance

Battery Power			
Port:			Basic Information
Bat type:	NCM	LFP	Total module: 3
Target Volt(V):	4.150	3.600	Total Bat: 24
Floor Volt(V):	3.200	1.500	Start time: 18:11:42
Output Cur:	2.00	5.00	time: 00:00:20
Cut-off Cur:	0.50	0.50	Pack total Volt(V): 39.047
Num.of BAT:	10	0	Pack Vol Diff(V): 0.010
Temp:	45	0	Screen Ver: 2.1.14
Max Vol(V)/Pos:	3.910/PA4	0.000/PB1	Master Ver: 4.2.30
Min Vol(V)/Pos:	3.900/PA6	0.000/PB1	Slave Ver: 3.1.75
Max Cap(Ah)/Pos:	0.000/PA1	0.000/PB1	
Min Cap(Ah)/Pos:	0.000/PA1	0.000/PB1	
			Return

Allow custom settings

Port	PA(V/Ah)	PB(V/Ah)
B1	3.309 2.63 0.01	3.313 -1.08 0.00
B2	3.321 2.45 0.01	3.316 -1.15 0.00
B3	3.324 2.51 0.01	3.316 -1.07 0.00
B4	3.323 2.49 0.01	3.313 -1.08 0.00
B5	3.327 2.49 0.01	3.325 -1.15 0.00
B6	3.323 2.56 0.01	3.313 -1.03 0.00
B7	3.314 2.57 0.01	3.314 -1.07 0.00
B8	3.328 2.52 0.01	3.327 -1.13 0.00
B9	3.320 2.94 0.01	3.315 -0.98 0.00
B10	3.321 2.57 0.01	3.316 -1.05 0.00
B11	3.324 2.57 0.01	3.329 -1.32 0.00
B12	3.312 2.64 0.01	3.313 -1.04 0.00

State: Balanced maintenance, do not change connection

Balancing

端口	PA(V/Ah)
B1	3.916 -0.07 0.00
B2	3.914 0.00 0.00
B3	3.915 0.00 0.00
B4	3.922 -0.23 0.00
B5	3.914 0.00 0.00
B6	3.911 0.10 0.00
B7	3.913 0.00 0.00
B8	3.914 0.00 0.00
B9	3.915 0.00 0.00
B10	3.914 0.04 0.00
B11	
B12	

设备状态: 均衡维护中, 请勿更改线路

- Discharging
- Charging
- Balanced