Balance and Maintenance For **HYUNDRI** 2011-2015 Sonata Hybrid Battery Pack



32V Sonata battery module*3

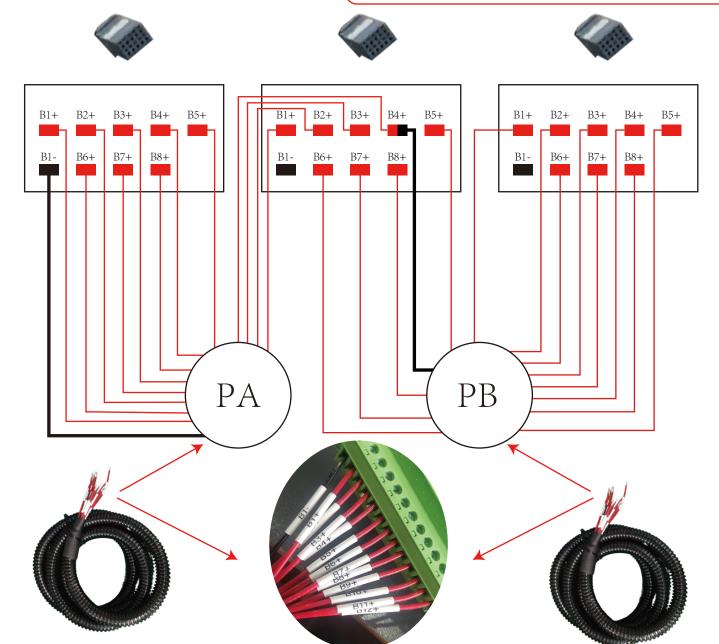
First Step: Making Three Pieces Modules Series Connection Together



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+.



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Finally: 1. Turn on the machine

- 2. To make a setting
- 3. Balancing
- 4. Finished.

	Configure	
Port:	РА	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

B1 D3 309 2.63 0.01 D3 313 1.08 0.00 B2 D3 322 2.45 0.01 D3 316 1.15 0.00 B3 D3 324 2.51 0.01 D3 316 1.15 0.00 B4 D3 323 2.49 0.01 D3 316 1.15 0.00 B5 D3 323 2.54 0.01 D3 315 1.08 0.00 B5 D3 323 2.55 0.01 D3 315 1.08 0.00 B6 D3 323 2.55 0.01 D3 311 1.07 0.00 B6 D3 324 2.57 0.01 D3 314 1.07 0.00 B6 D3 324 2.57 0.01 D3 327 1.13 0.00 B6 D3 324 2.57 0.01 D3 327 1.13 0.00 B7 D3 324 2.52 0.01 D3 327 1.13 0.00				A/Ah)		PB(V	//A/Ah)		
B3 C2 S224 Z51 O.01 C2 S216 -1.07 0.00 B4 CC S223 Z49 O.01 CC S315 1.08 0.00 B5 CC S232 Z.56 O.01 CC S315 1.08 0.00 B5 CC S325 Z.15 O.01 CC S313 1.03 0.00 B7 CC S324 Z.57 O.01 CC S314 1.07 0.00 B6 CC S328 Z.52 O.01 CC S324 7.00 B6 CC S324 Z.52 O.01 CC S324 7.00 B8 CC S324 Z.52 O.01 CC S325 1.13 0.00					0.01			0.00	
B4 23 3.32 2.49 0.01 23.313 1.08 0.00 B5 29 3.327 2.49 0.01 23.325 1.15 0.00 B6 29 3.322 2.56 0.01 23.323 1.15 0.00 B6 29 3.323 3.14 2.57 0.01 23.314 1.07 0.00 B7 29 3.314 2.57 0.01 23.327 1.13 0.00 B8 29 3.328 2.52 0.01 23.327 1.13 0.00 B9 20 3.20 2.54 0.01 23.315 0.98 0.00	B2		3.321	2.45	0.01	3.316	-1.15	0.00	
B5 mo 3.327 2.49 0.01 mo 3.22 1.15 0.00 B6 mo 3.232 2.56 0.01 mo 3.313 1.03 0.00 B7 mo 3.314 2.57 0.01 mo 3.314 1.07 0.00 B6 mo 3.232 2.52 0.01 mo 3.327 1.13 0.00 B9 mo 3.324 0.01 mo 3.315 4.98 0.00	B3		3.324	2.51	0.01	3.316	-1.07	0.00	
B6 23 3.32 2.56 0.01 23 3.313 1.03 0.00 B7 20 3.314 2.57 0.01 20 3.314 1.07 0.00 B8 20 3.328 2.52 0.01 20 3.227 1.13 0.00 B9 20 3.328 0.01 20 3.315 0.98 0.00	B4		3.323	2.49	0.01	3.313	-1.08	0.00	
87 29 3314 2.57 0.01 2014 3314 -1.07 0.00 88 29 3328 2.52 0.01 20327 -1.13 0.00 89 29 3322 4.44 0.01 20327 -64 0.01			3.327	2.49	0.01	3.325		0.00	
B8 Z3 3.328 2.52 0.01 Image: 3.327 -1.13 0.00 B9 Z3 3.320 2.94 0.01 Image: 3.315 -0.98 0.00			3.323	2.56	0.01	 3.313	-1.03	0.00	
B9 3.320 2.94 0.01 3.315 -0.98 0.00			3.314	2.57	0.01	 3.314	-1.07	0.00	
			3.328	2.52	0.01	3.327	-1.13	0.00	
	B9		3.320	2.94	0.01		-0.98	0.00	
	B10					3.316	-1.05	0.00	
	B11								
B12 🗾 3.312 2.64 0.01 🛄 3.313 -1.04 0.00	B12		3.312	2.64	0.01	3.313	-1.04	0.00	
State: Balanced maintenance, do not change connection Detail Stop		State: Balance	ed main	tenan	ce, do	D	etail		Stop

Balancing

				Port:
3	Total module:	UP	NCM	Bat type:
24	Total Bat:	3.600	4.150	Target Volt(V):
18:11:4	Start time:	1.500	3.200	Floor Volt(V):
00:00:20	time:	5.00	2.00	Output Cur:
39.047	Pack total Vol(V):	0.50	6.50	Cut-off Cur:
0.010	Pack Vol Diff(V):	•		Num.of BAT:
2.1.14	Screen Ver:	•	-	Temp:
42.30	Master Ver:	0.000/781	3.910/744	Max Vol(V)/Pos:
3.1.75	Slave Ver:	0.000/781	3.900/746	Min Vol(V)/Pos:
	The second second	0.000/PB1	0.000/PA1	Max Cap(Ah)/Pos
	The second se	0.000/781	6.000/PA1	Vin Cap(Ah)/Pos:

Allow custom settings

