

# PROCEDURE

Reference:	PR202	PR20220401-01					
Version:	01.1	Category:	E				

MODEL(S)	GOAL
All new type lithium battery pack	Quality improvement
	Performance √
	Upgrade √
PARTS INFO	Down time
Data transfer cable for Lithium battery interface software	Maintenance √
	Work around $$
	Others:

VERSION CONTROL:							
Author:	Version:	Date:	Change/update:				
Arvin	01.1	2022/04/16	update				

#### TITLE

How to reflash the BMS board by RS485 communications

TOOLS REQUIRED	
	Construction         Construction<
<ul> <li>Laptop (Win 7 or up)</li> <li>Data transfer cable for Lithium battery interface</li> <li>Lithium battery interface software</li> </ul>	software

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Note: Please read the information before conducting the procedures below

- > These procedures only apply to the new type BMS board.
- > How to distinguish the new type BMS board:

**1.** Check the battery serial number. The serial number of the lithium batteries which have new type BMS board will be ending with "-1".



2. Inspect the BMS board connectors, see the image for new type BMS board.



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#### HOW TO DO?

Connect it to battery positive

terminal

1. Connect the "Data transfer cable" to the laptop and lithium battery.





Connect it to battery RS485 port

2. Run the battery interface software <u>GBMS</u> by following the Procedures "**PR20211006-How to use** Interface software for lithium battery-v02.0-EN-[E]"



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Setting Connect Disconnect Communication	Acquisition interval Buffer interval 500	1000 ms ms Opera	Continuous acquisition	Collection	Need save Historical data Data	Alarm protection						
Packe		Temperat	ure(°C)	Protecti	on bit		Stat	e bit				
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Cell data								р Г С	Лах Лin Differenc	0 mv 0 mv e 0 mv		_

- 3. Set the COM /BMSID/Cell Num/Length
- > COM: The COM # depends on the laptop you are using.
- BMSID: 1
- > Cell Num: 16
- Length: 80

Setting Connect Disconnect	cquisition interval uffer interval 500	1000 ms	Continuous coquisition Collection Collection			
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		T5	COM6 • 9600 •	1 O C	EurLimit on	0
Total current	0 A	TC		internal comm 0 G	GPRS exception	0
		16		n 0 G	GPS not located	0
Cell data			BMSID: 1 Cell Num: 16 Length: 80 Refresh OK Cancel	Max	0 mv	
				Min	0 mv	
				Difference	0 mv	

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CommStatus: 

WorkerStatus:

Name: COM3 BMS ID: 1 Cell count: 16 Collection times: 6 Acquisition success times: 6

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9. When the progress bar shows 100%, the reflashing progress is completed. Turn off the interface software. Se BM -Home Other ♥ ₽ UART Down! CAN ad Download 象 COM Download × BaudRate: 115200 - . File: G:\桌面杂乱\2020年客诉\常用表单\LANCE 发的资料\锂电池BMS程序\ ... 70416 / 70416 т SOH 99.9% T 100 % Circle 3 T3 100% ASCII ⊖ Hex Show send Show time T4 53.3 V Total voltage T [17:10:09] R Ascii Goto APP Delay Total current 0 A Te Cell data [17:10:10] R Ascii Goto APP Delay 1 # 3332 mV 2 # 3334 r 3334 mv 3 # 3334 mV 4 # 3331 r Start program execution..... [17:10:11] R Ascii 3328 mv 5 # 3332 mV 6 # 3332 r 7 # 3334 mV 8 # 3332 r ence 6 mv 9 # 3334 mV 10 # 3330 11 # 3330 mV 12 # 3332 1098 13 # 3333 mV 14 # 3330 0 3332 mV 3328 r 15 # 16 # 0.262144 Enter BOOT Run APP Aborted Ready to download 16 BMS SN 4E47479514373731 #7 #8 #9 #10 #11 #5 #6 #3 #4 #12 #13 #2 #14 激活 Windo 转到"设置"以激 CommStatus: 
VorkerStatus: 
Komme: COM3 BMS ID: 1 Cell count: 16 Collection times: 14 Acquisition success times: 14

10. Cycle the key switch and then charge the lithium battery fully.

Note: Must fully charge the lithium battery after re-programming/reflashing the BMS.



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