ADVANCED
POWERING SERVICES, INC.

30255 Tomas, Rancho Santa Margarita, CA 92688

Clearing Codes and Restarting BMS Guide

Please follow the following steps to Connect, Clear Codes and Reset the BMS unit.

1. Save attached file on the email to your computer (desktop)
2. Install Java using this link: https://www.java.com/en/download/manual.jsp
3. Highly recommended to use a Windows PC, but also available for Mac users
   a. We have 2 versions of our pack, please select the correct version
      i. Version 1 with Orion Jr BMS
         https://www.orionbms.com/downloads/orionbms_jr_utility_stable.zip
      ii. Version 2 with Orion Jr BMS 2
         https://www.orionbms.com/downloads/orionjr2_utility_stable.zip
4. Use the supplied USB to Serial adaptor to connect to the BMS Diagnostic port to the PC.
   a. If needed you can get the USB adapter driver here:
      https://www.cablecreation.com/uploads/PL2303-Chipset-%E6%94%B9.pdf
5. Open the utility and locate the File menu at the top left.
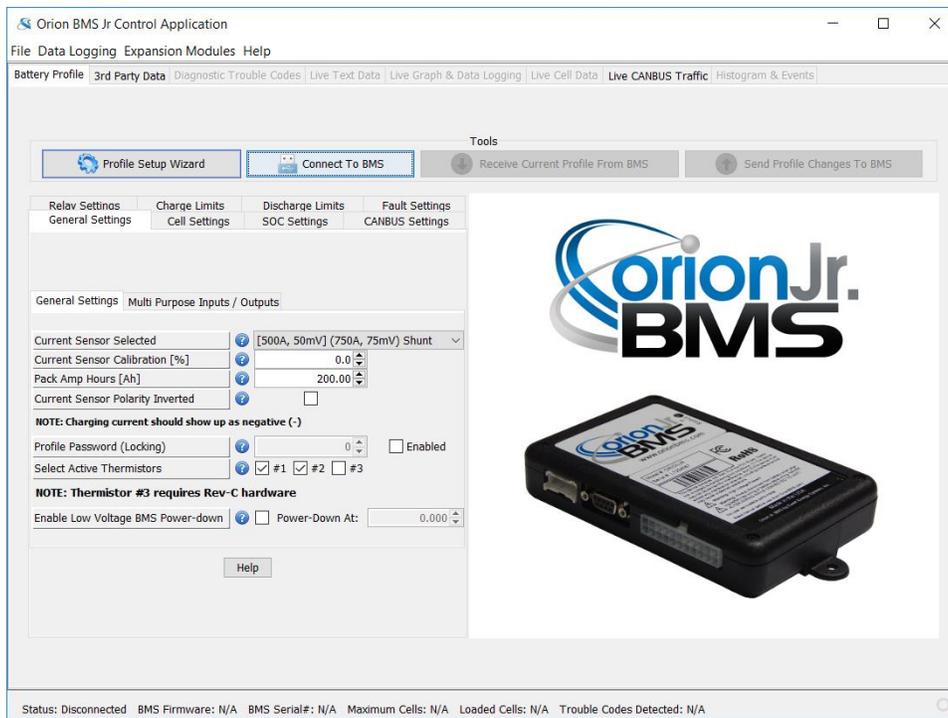
6. A pop up window will appear, check if an adapter is found.

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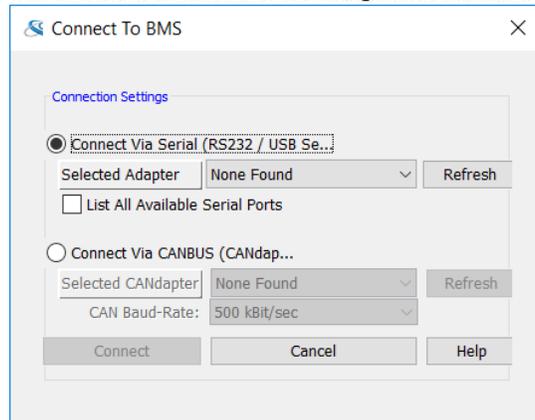
7. If found, click connect, otherwise refresh and try again.

8. When connecting, another pop up will appear, it will prompt you to load the BMS profile. You may agree to this and accept the warning window.

9. Once connected and the profile loaded, locate the help menu at the top left.
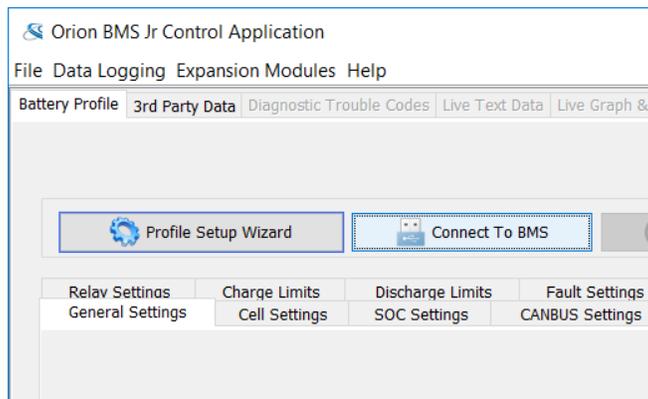
10. Click on "Help" and click on "Take Data Snapshot"
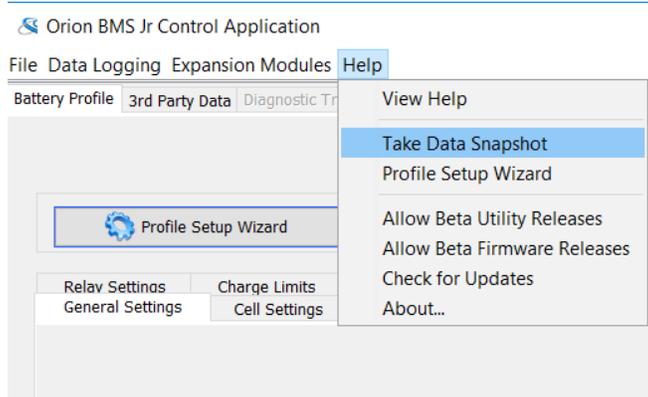
11. Another window will appear; this window will prompt you to save the data in a file location.

12. Select your Desktop for the location to save the data, do not rename the data file name.

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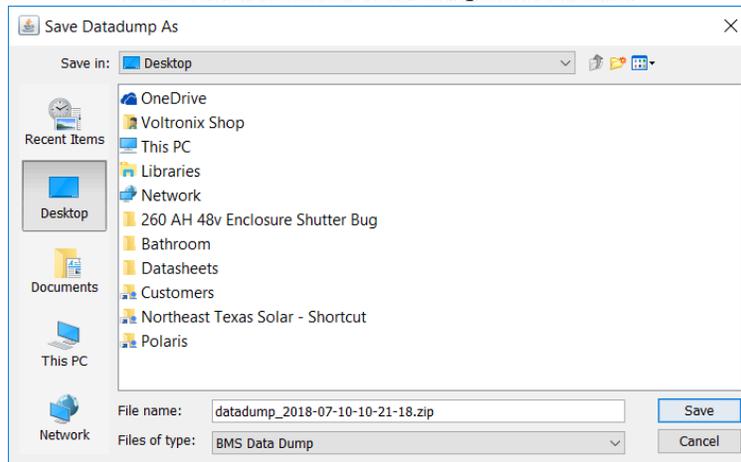
13. Next go to "Diagnostic Trouble Codes" tab and open.
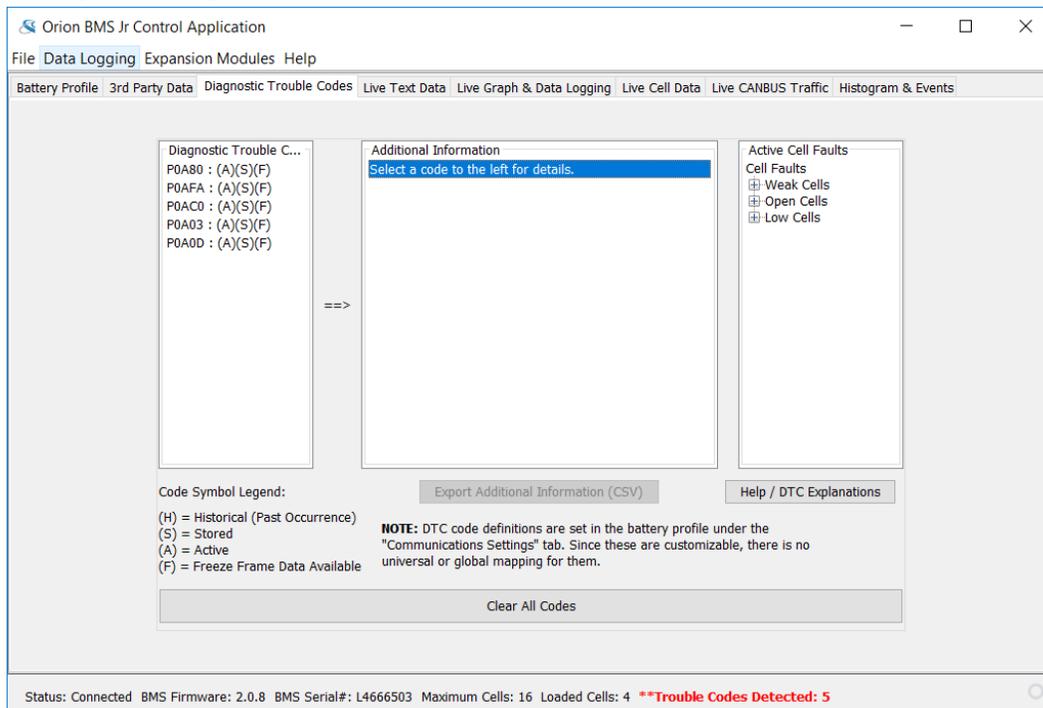
14. If you have a **Trouble Code** please continue, otherwise skip to step 16.
15. At the bottom of the window click on the "Clear All Codes" and select Yes on the pop up warning window.

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P0AC0 : (A)(S)(F)
P0A03 : (A)(S)(F)
P0A0D : (A)(S)(F)

Clearing Stored Codes   ✕

Are you sure you want to clear all set diagnostic trouble codes?

Clearing codes also clears all stored diagnostic information which
could prevent a service technician from identifying a problem.

[Yes]   [No]

Open Cells
Low Cells

Code Symbol Legend:

(H) = Historical (Past Occurrence)
(S) = Stored
(A) = Active
(F) = Freeze Frame Data Available

Export Additional Information (CSV)

NOTE: DTC code definitions are set in the battery profile under the
"Communications Settings" tab. Since these are customizable, there is no
universal or global mapping for them.

Help / DTC Explanations

Clear All Codes

16. At this time the errors should erase from the unit and no errors should stay persistent.
    a. If an error stays on, the error will be observable on the Unit with a red light or on software in **Red Bold** towards the bottom of the application. Please contact a Voltronix Tech rep for further help.
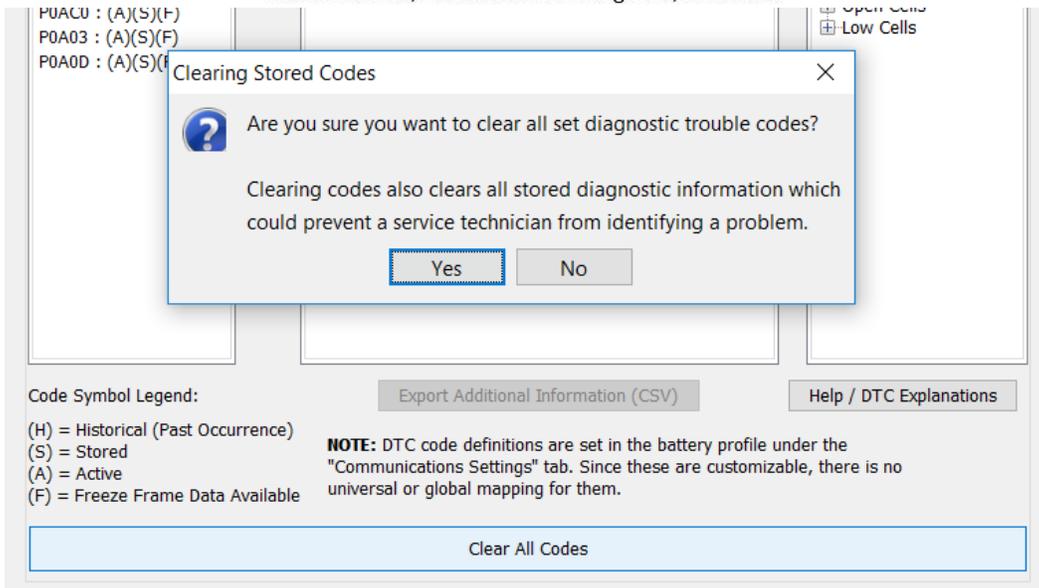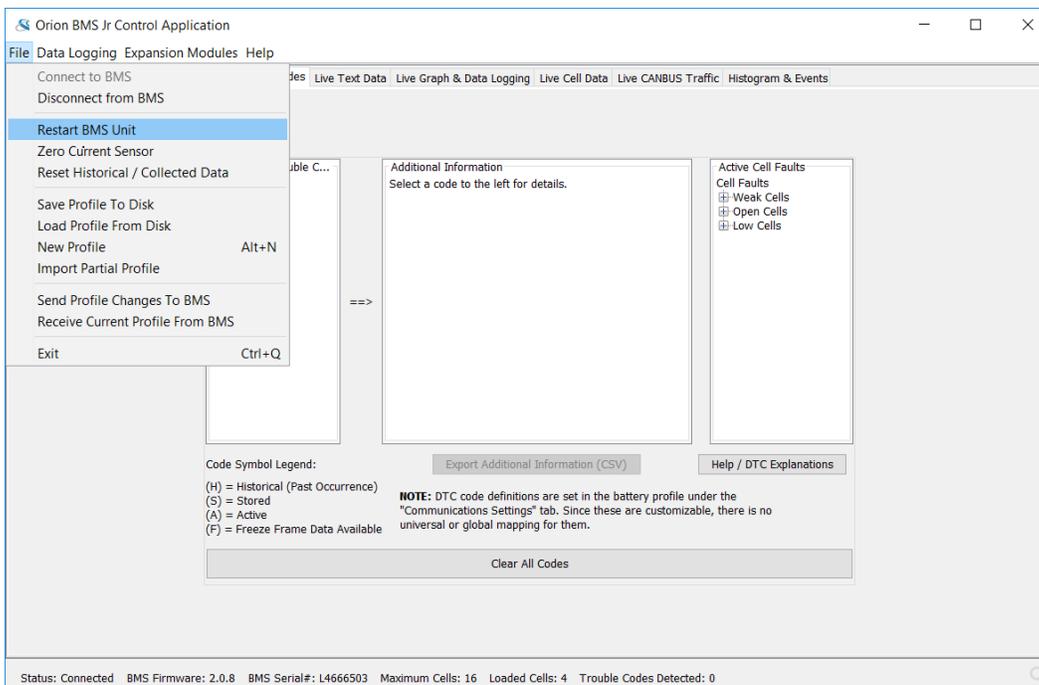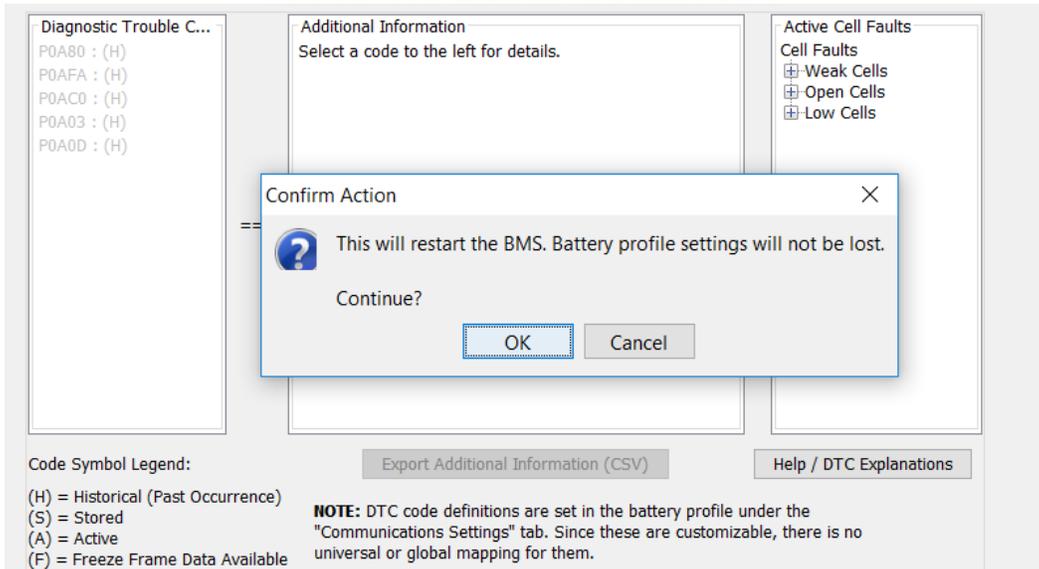17. After clearing the trouble codes locate the File menu (top left of the window) and select "Restart BMs Unit.

Orion BMS Jr Control Application   —   □   ✕

File Data Logging Expansion Modules Help

Connect to BMS
Disconnect from BMS | des Live Text Data Live Graph & Data Logging Live Cell Data Live CANBUS Traffic Histogram & Events

Restart BMS Unit
Zero Current Sensor
Reset Historical / Collected Data

uble C... | Additional Information | Active Cell Faults
            | Select a code to the left for details. | Cell Faults
Save Profile To Disk | Weak Cells
Load Profile From Disk | Open Cells
New Profile   Alt+N | Low Cells
Import Partial Profile

Send Profile Changes To BMS
Receive Current Profile From BMS   ==>

Exit   Ctrl+Q

Code Symbol Legend:

(H) = Historical (Past Occurrence)
(S) = Stored
(A) = Active
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Export Additional Information (CSV)

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Help / DTC Explanations

Clear All Codes

Status: Connected   BMS Firmware: 2.0.8   BMS Serial#: L4666503   Maximum Cells: 16   Loaded Cells: 4   Trouble Codes Detected: 0

18. A pop up window will appear and select "OK". At this time the BMS unit with restart and you should hear an audible click from the master relay.

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Diagnostic Trouble C...
P0A80 : (H)
P0AFA : (H)
P0AC0 : (H)
P0A03 : (H)
P0A0D : (H)

Additional Information
Select a code to the left for details.

Active Cell Faults
Cell Faults
⊞ Weak Cells
⊞ Open Cells
⊞ Low Cells

Confirm Action   ✕

This will restart the BMS. Battery profile settings will not be lost.

Continue?

OK   Cancel

Code Symbol Legend:

(H) = Historical (Past Occurrence)
(S) = Stored
(A) = Active
(F) = Freeze Frame Data Available

Export Additional Information (CSV)

Help / DTC Explanations

NOTE: DTC code definitions are set in the battery profile under the "Communications Settings" tab. Since these are customizable, there is no universal or global mapping for them.

19. You should now be done clearing codes and restarting the BMS unit. You will notice that the SOC display will reset to 50%. This SOC will re-calibrate over time and you may ignore this.
20. Locate your files and email your files to a Voltronix Tech.