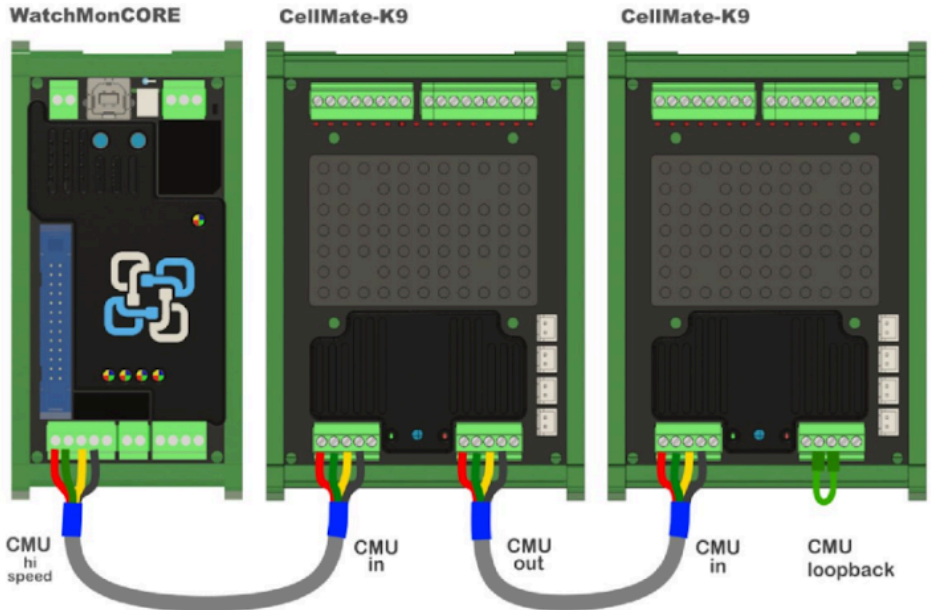


Batrium CellMate-K9 Wiring
Quick Start Guide 1.0 July2023

- 0 to 65V—16 cells in series
- 4 temperature sensors
- Bypass current ~1A
- Max of 20 x Cellmate-K9
- Communication fully isolated
- Modules placed in series or parallel
- All products are thoroughly tested before shipping, refer to results in the quality report

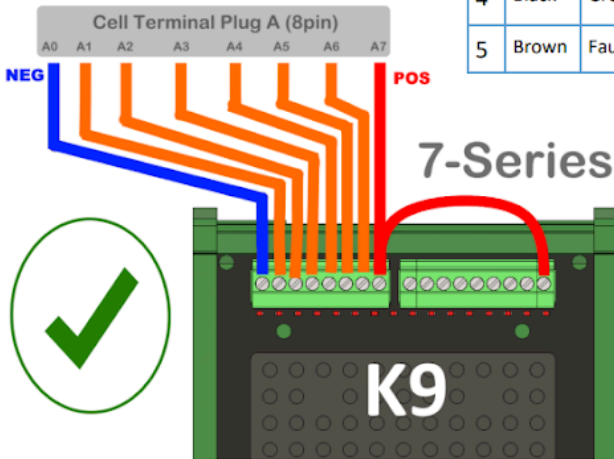
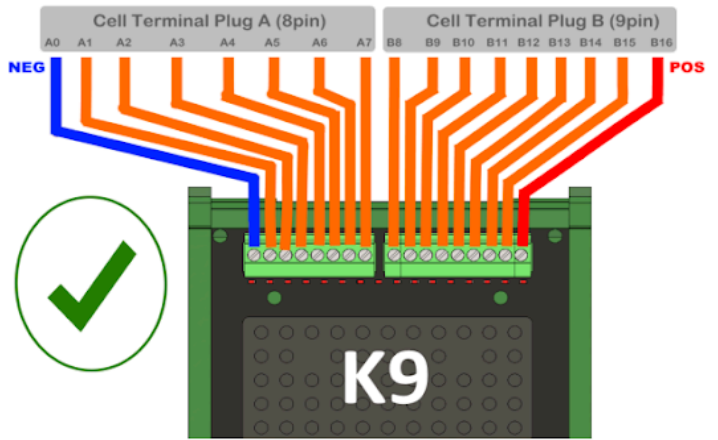
Note / Caution

- Take care with wiring polarity
- Do not split K9 between multiple banks
- Disconnect BMS prior to reconfiguring batteries, tightening bolts or changing fuses
- When assembling cell terminals remove plugs from the K9, check that you have wired correctly with a TestMon or multi-meter before reconnection
- Connect plug-A(8pin) then plug-B(9pin)
- Disconnect plug-B(9pin) then plug-A(8pin)
- Incorrect wiring will not be covered by warranty



Pin	Color	Function
1	Red	5Vdc
2	Green	TX
3	Yellow	RX
4	Black	Ground
5	Brown	Fault

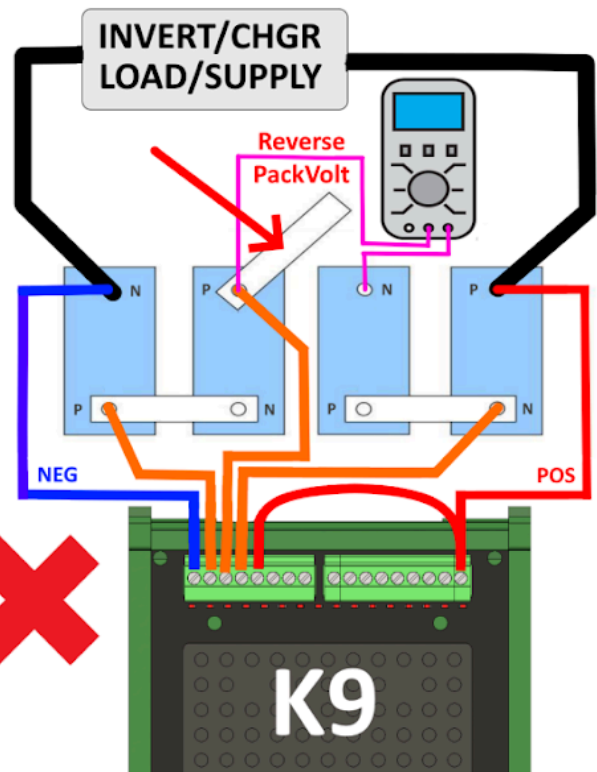
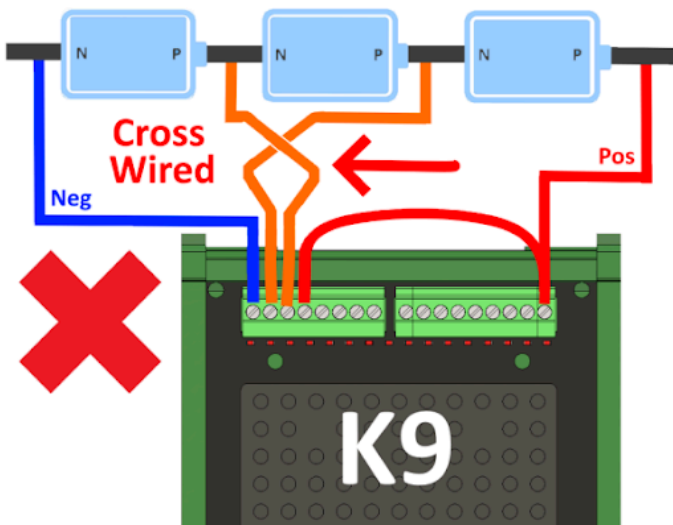
<https://wiki.batrium.com/product/cell-monitor/cellmate-k9>



rewiring battery with BMS attached will void warranty

reverse polarity will void warranty

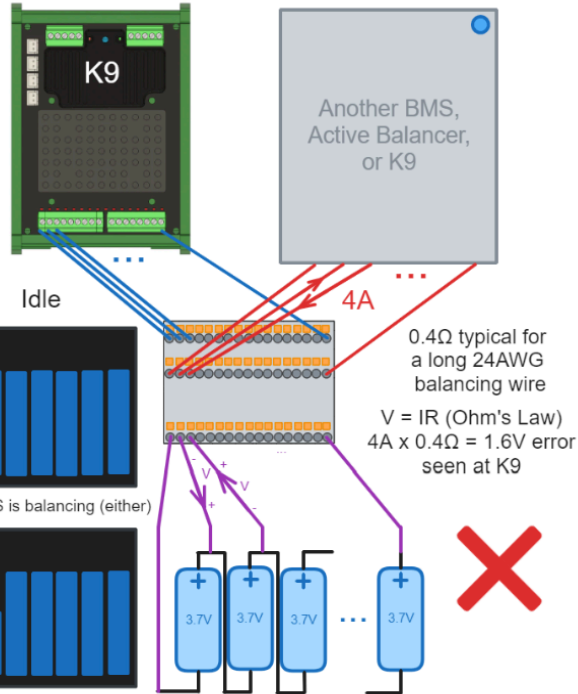
cross wire will void warranty



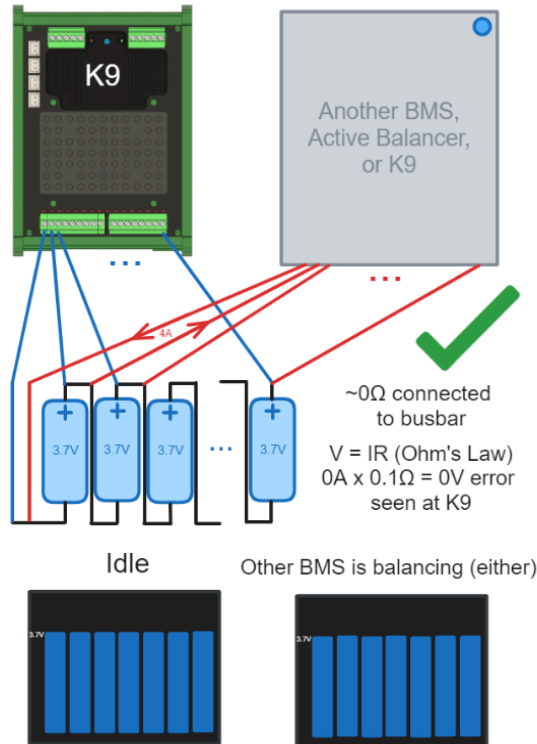
Voltage Error with Shared Loom

Multiple BMS cannot be synchronised when measuring and balancing independently

On the same wire, this causes errors on both.

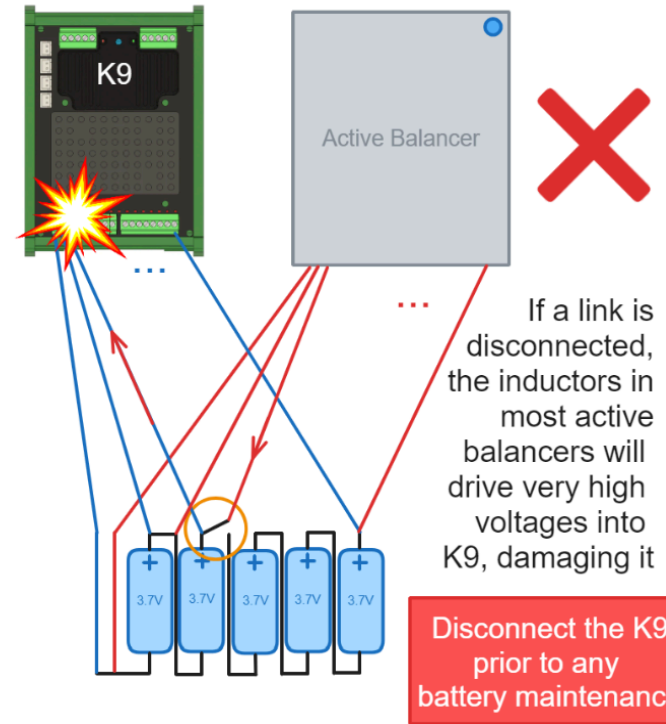


No Voltage Error with Separate Loom

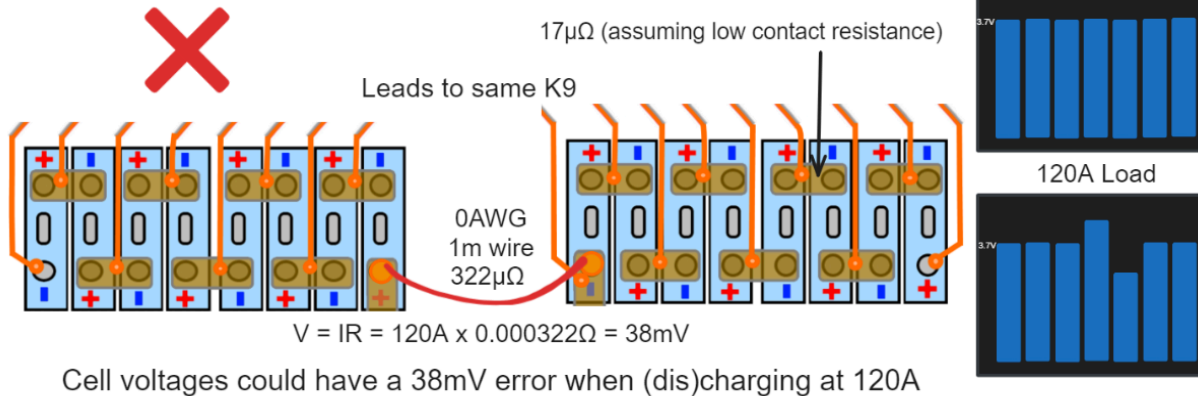


Separate balance wires prevent errors from both BMS attempting to balance or measure at the same time

K9 Damaged due to inductor voltage spike



Voltage error due to split pack



Battery banks out of sync due to load/charger proximity

