

ProTek R/C Parallel Charge Board Safety Instructions and Notes

Use the ProTek R/C Parallel Charge Board in conjunction with a lithium-specific balance charger battery charger to charge up to four batteries simultaneously, and also balance the individual cells of each battery during the charge process.

Safely using this charge board requires some electrical understanding and should not be used unless you are comfortable with basic charging calculations!

Warning Notes!

Always follow this order when installing the charge board and batteries:

1. Plug the charge board power leads into the charger.
2. Plug the battery #1 power leads into the charge board.
3. Plug the battery #1 balance cable into the charge board.
4. Repeat steps 2 and 3 for additional batteries.

Never charge different battery types at the same time!

Batteries of the same type must always be charged together. For example, attempting to charge a NiMH battery, a LiPo battery and a LiFe battery at the same time on the charge board can end in catastrophic results, possibly resulting in injury or damage.

Never charge Lithium batteries of different cell counts at the same time!

Lithium batteries of the same cell count must always be charged together. For example, attempting to charge a 2S LiPo, a 4S LiPo and a 6S LiPo at the same time on the charge board can end in catastrophic results, possibly resulting in injury or damage.

Never charge batteries with different states of discharge!

Batteries should always be at similar state of discharge before charging. For example, attempting to parallel charge a battery that is 90% discharged with another that is 20% discharged can result in a higher than normal current transfer into the battery with the lower discharged voltage. This high current transfer may exceed the safe charging C rating of that battery pack, possibly resulting in injury or damage. We recommend using a battery checker, such as the ProTek R/C iChecker 2.0 (PTK-210), to monitor your battery voltage before using the charge board.

Always program your charger to the total capacity of all attached batteries!

When programming your charger it is crucial you set the total combined capacity of all the packs attached. For example, if you have two 3S 2200mAh batteries attached to the charge board you would program the charger as though it was charging a single 3S 4400mAh battery; if charging two 2S 5000mAh batteries you would program the charger to charge a single 2S 10000mAh battery; if charging three 3S 1500mAh batteries program the charger as though it was charging one 3S 4500mAh battery, and so on.

Note: When using the parallel charge board you will lose the ability to monitor each pack independently. The information the charger displays will be an average of all the cells attached.