



## CHARGING CAMTRAWL BATTERIES

Starting with the 2018 field season, Camtrawl has a new battery system. The new batteries come with new chargers and a different procedure for charging them. While still easy to charge, the new chargers are configurable and you will need to pay a bit more attention to the process to ensure that the settings aren't inadvertently changed.

### SETUP

The charging system deployed for the winter 2018 field season has 2 “iMAX Quattro B6” chargers installed, each with 4 battery chargers. These 2 chargers are identical (except for superficial color differences). We will only need 2 outputs from 1 charger to charge a Camtrawl battery and while you can use any 2 outputs, I will describe the procedure using the 2 outputs nearest the bottom of the image above.



If it isn't already installed, plug in the charging cable to the charger being careful to insert the plugs into the correct receptacle.

**RED PLUGS GO TO THE RED RECEPTACLE**

**BLACK PLUGS TO THE BLACK RECEPTACLE**

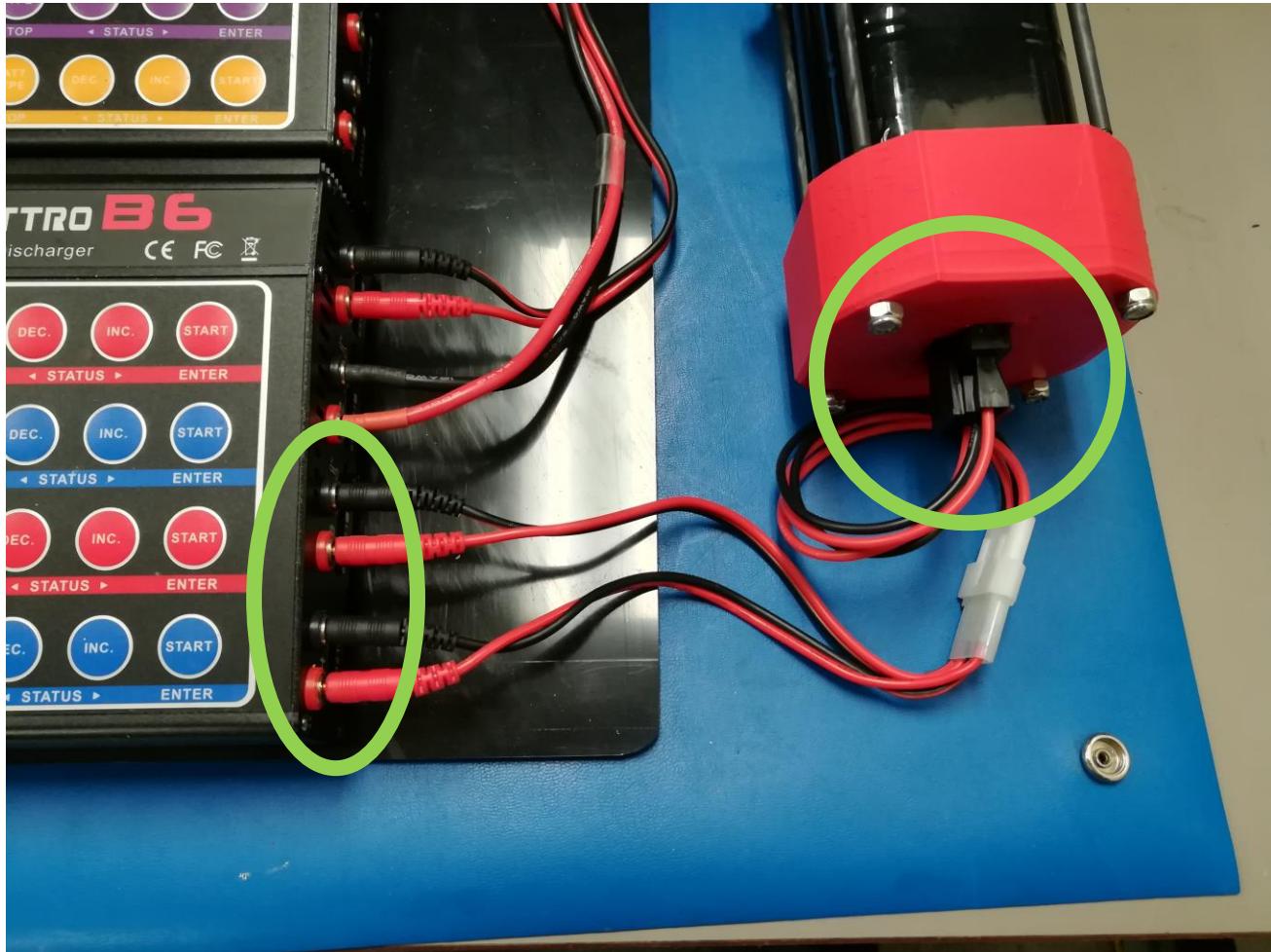
The charging cable is designed to work directly with the Triggercam system so we use an adapter cable which provides the connector that mates with the Camtrawl battery packs. If it isn't already connected, attach the adapter cable pictured below.)



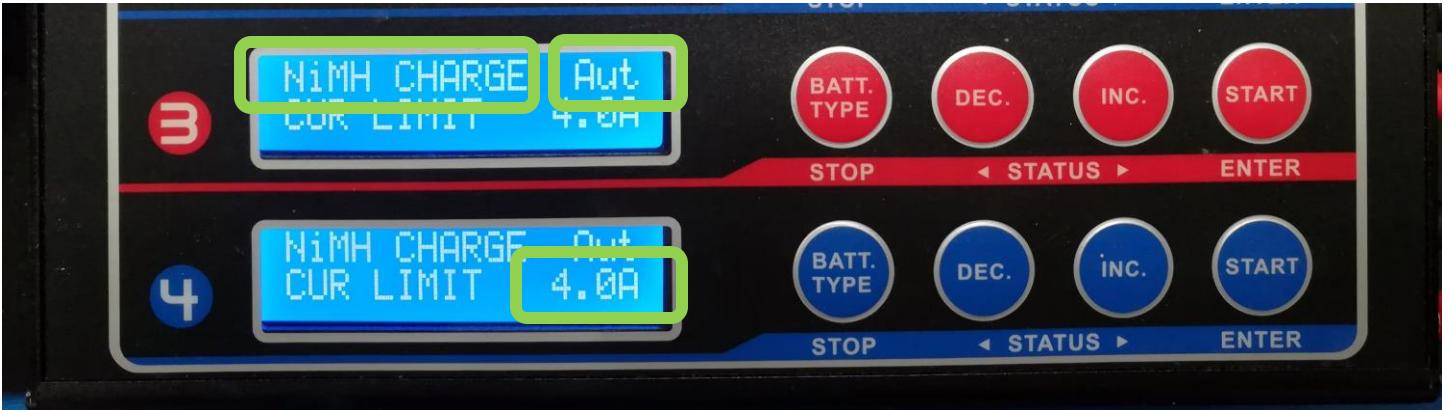
The last step is to plug in the charger power supply.

## CHARGING

When you are ready to charge a Camtrawl battery, plug the battery into the charger. The connector is keyed and will only fit in the correct orientation. Do not force the plug. After connecting the battery, note which chargers the cable is plugged into.



Next, verify that the charger settings are correct. There are 3 things to check:

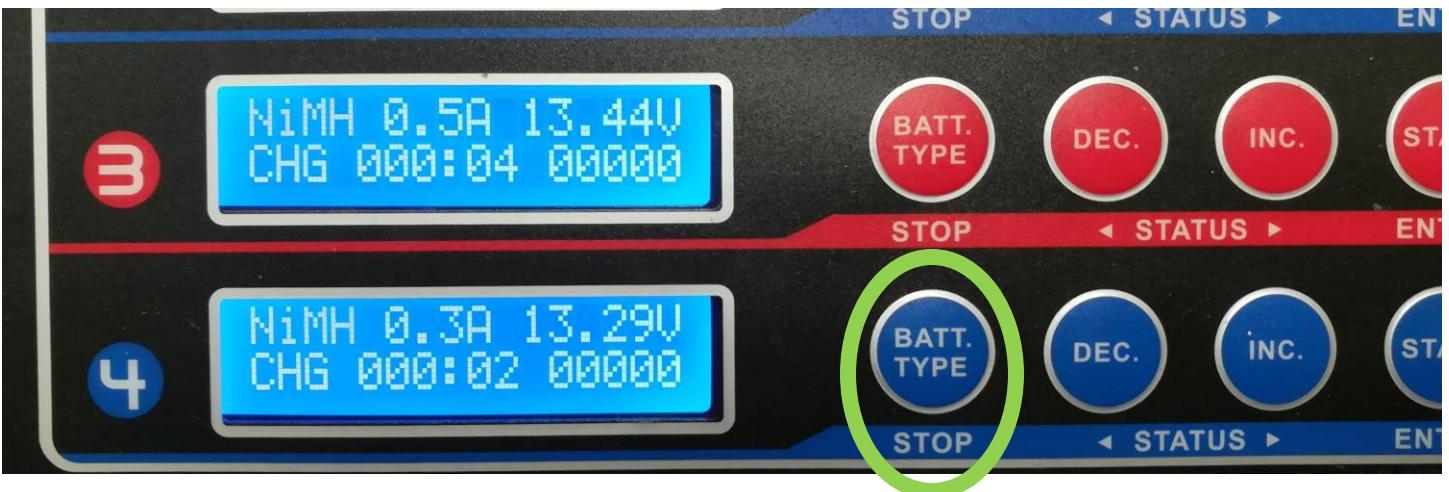


1. Ensure that the mode is set to “NiMH CHARGE”
2. Ensure the charge mode is “Aut” indicating Automatic mode.
3. Ensure the charging rate is “4.0A”.

All chargers have been configured with these settings and they should not change unless someone presses buttons when they aren't supposed to. If the settings are not correct, you can move the charging cable to a different pair of chargers that have the correct settings or find Rick/Scott/Kresimir to get the chargers back to the correct settings.



Start charging by pressing and holding the START button for each charger connected to the battery. The charger will beep and start charging. The display will change indicating that it is charging the battery.



When charging, the display will show the current charge rate, the current battery voltage, the amount of time the battery has been charging, and the total current sent to the battery. In the image above, I had just pressed the START button and the chargers had only been running for 4 seconds (top) and 2 seconds (bottom.)

It is normal for the charge rate to fluctuate as the charger pauses occasionally to check the battery state. This will be accompanied by a change in sound from the power supply fan. This is all normal.

When charging is complete, the charger will make some “beepy” noises and the word “FULL” (or maybe “DONE”) will flash where “NiMH” is displayed. **You must wait for BOTH chargers to complete charging before disconnecting the Camtrawl battery.**

**If for any reason you need to stop charging. Press and hold the “BATT.TYPE” button (circled above) until the charger beeps and charging stops.**