

The 8 Ball

1.0 Load Checker for 7.4VDC Lithium Ion and Lithium Polymer batteries only

FROMECO

INSTRUCTIONS

Step 1:

Plug 8 Ball Load Checker into 7.4 Lithium Ion "Relions" or Lithium Polymer batteries. Once battery is plugged in, you will notice will say "FROMECO 8 BALL".

Step 2:

The screen will now transition to the Static Voltage screen. The screen you see will look like this: "LOAD=0A V=XX.XX". This is your batteries initial voltage without load.

Step 3:

Your 8 Ball will now begin its test. The screen will look the same as it did in Step 2. However, the LOAD will display a 1 instead of a 0. You will notice that your battery Voltage is dropping while in this mode. The screen will look like this: "LOAD=1A V=XX.XX" You will need to watch this screen throughout the entire load check. The Voltage displayed during the load checks are real time. On a healthy battery your voltage should drop for a few seconds and then stabilize. It is this stabilized number that is your final load check. Example: Plug a 2600 Relion in, voltage under 0 load is 8.27V or "LOAD=0 V=08.27". Under a 1amp load this Voltage should drop to 7.99-7.98 or "LOAD=1A V=07.99". This is the batteries 1 amp load voltage.

Step 4:

Your 8 Ball will now transition into a resting mode for a few seconds. The screen will look like this: "RESTING V=XX.XX". While in this mode, the 8 Ball will be reading the batteries voltage unloaded again.

Analyzing the Voltage:

2600mAh packs & 5200mAh packs should be measured using the numbers that are displayed in the "V=XX.XX" line while the load check is underway.

Low Voltage:

The 8 Ball unit is designed to alarm at a Voltage of 7.0VDC under a 1.0amp load. Your 8 Ball indicates an alarm Voltage by flashing text on the screen that will say "NO-FLY". Fromeco has the alarm set points set to alarm at 7.0 volts under a 1amp.

Fromeco recommends that Pilots stop flying and start charging when batteries read 7.0 Volts DC under a 1.0amp.

Reading Voltage with the 8Ball load checker:

The 8 Ball was designed to read Voltage real time to allow Fromeco Pilots to adjust their Fromeco adjustable regulators. Once the 8 Ball goes through all of its load checking steps the last screen will display "Live Voltage" this voltage is real time. When using an 8 Ball to adjust regulator voltage, you will most likely get a low voltage alarm unless your regulator is set over 7.0VDC. Once all the alarm indications have cleared, the last screen will read "NO-FLY VXX.XX" it is this voltage that is real time and can be used to adjust regulators.

Large Voltage Spreads:

If a voltage spread from Resting to 1 amp load is greater than .5VDC a new battery purchase should be considered. NOTE: This assumes that the 8Ball is connected "DIRECTLY" to the battery being checked. No switches/Extensions/Extra wire. Many Pilots ask, "When do I need to purchase new batteries?" a .05VDC drop from resting to test new packs should be considered.

The text on the case is upside down to the screen:

8 Balls need to be Turned upside down to be read properly. Yeah we did that!

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