

# Flite Lines

[Official Newsletter of the Manitowoc Flyers - AMA charter 1008](#)  
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**Next Meeting is Tuesday  
January 16th 7:00 PM  
M&M Lunch, Two Rivers**

## Note From Prez:

First, I want to wish everyone and their family A Happy, Healthy, and Safe New Year! We had our first couple indoor flies at Mishicot gym and it seems to be going over very well this year with club members and families. We are even getting free entertainment, with training of some family members to fly their airplanes. We still have Christmas Party plans pending, and soon as we know more, emails will go out to where and when this will be. Happy Flying!

## From commonsenserc.com

- Always use a wattmeter or current meter to monitor the current draw during set up. This will help you to optimize your set up and avoid damaging your equipment - motor, ESC, or battery.
- During motor installation, think about protecting the three motor wires. They are NOT repairable. When any wire is broken, the motor is gone instantly and it is NOT covered by the warranty.
- If you need to install a press-on pinion, be VERY careful. Pressing the pinion incorrectly or without proper tools could ruin a brand new motor instantly and it is NOT covered by the warranty.
- If you need to remove the factory installed connectors, un-solder them. These are varnished magnet wires. If you just cut them, you will have hard time to re-solder them unless you follow a correct procedure with the right tools.
- If the shaft is bent or broken, or the gear is worn, parts are available for DIY repair. It is cheaper and faster, if you can repair it yourself.

## How to Get the Most From Your Lipos

- Cycle your packs when you first get them. Cycle them at least 3 times at low rates. Charge at .5C and discharge at 2C
- Try not to discharge your packs beyond 80% of their capacity. For example try to use only 1600mAh of a 2000mAh pack. This will keep the temperature down and prolong the life of your pack. Do not fly your plane until the "low voltage cut-off" kicks in.
- Balance your packs after every flight. An "out of balance" pack and a perfectly balanced pack look exactly alike. Charging an "out of balance" pack one time with a conventional serial charger will result in overcharging some of your cells and will do permanent damage. This will shorten the life of the pack quicker than anything.
- Whenever possible, charge your packs at the slowest rate you can. Of course, Lipos should never be charged unattended, so choose the slowest rate that will still allow you to keep an eye on the process. All battery types respond better to a slow charge.
- If you have any questions, try our "Live Help" feature located on the top right hand corner of our website and you chat one on one with a Lipo specialist. [http://www.commonsenserc.com/page.php?page=battery\\_education.html](http://www.commonsenserc.com/page.php?page=battery_education.html)



Contact by phone or EMAIL

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*Manitwo Flyers Schedule*

**April 1, - Club Dues are due.**

**January 16th, - Manitwo Flyers Meeting 7:0pm M&M Lunch in Two Rivers**

**January - 19 or 20 or 26 or 27 Club Christmas Party - Tumbleweed Restaurant in Green Bay You make the call please email Vince, most popular night wins.**

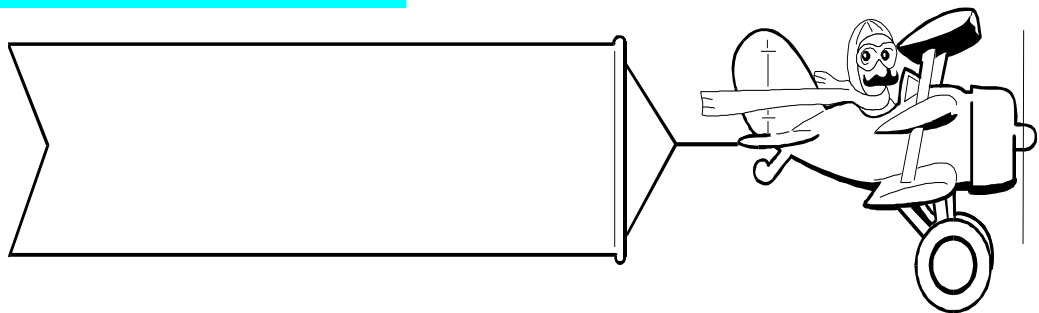
**March 4 Valley Aero Modelers, Inc 23rd Annual Show and Auction**

**April - Club FlyIn at Manitowoc County Airport?**

**May - Joe Noll FlyIn, Several members are planning to go to this world class event.**

Vince Hickel  
1218 New York Avenue  
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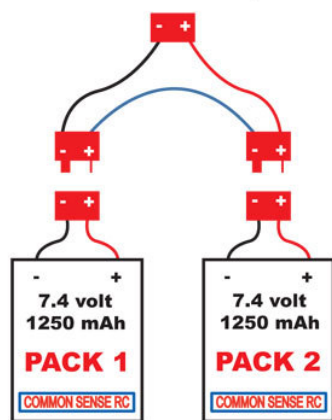
# Flite Lines



Wiring advice from commonsenserc.com

**Series Y-Harness**

2 packs in series  
(Voltage doubled, capacity remains the same)

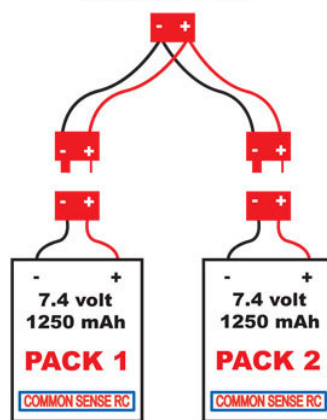


**BOTH PACKS MUST BE THE SAME VOLTAGE, CAPACITY AND FROM THE SAME MANUFACTURER**

**End Result**  
14.8 volts  
1250 mAh

**Parallel Y-Harness**

2 packs in parallel  
(Voltage remains the same, capacity doubled)



**BOTH PACKS MUST BE THE SAME VOLTAGE, CAPACITY AND FROM THE SAME MANUFACTURER**

**End Result**  
7.4 volts  
2500 mAh

**Wiring Diagram for Separate Charging/Balancing Connector**

This diagram shows the typical wiring for a 3 cell pack. We have drawn this using "can" type batteries just for display purposes only. You can see from the diagram that:

- \*The black wire is the negative for cell #1
- \*The blue wire is the positive for cell#1 and the negative for cell#2
- \*The yellow wire is the positive for cell#2 and the negative for cell#3
- \*The red wire is the positive for cell#3

