THE CARRIER WAVE

PHANTOM FLYERS R/C CLUB

AMA #393 SAINT CHARLES, MO

February 2024

Newsletter of the Phantom Flyers R/C Club http://phantomflyersrc.com

CLUB OFFICERS	Contact Number
President - Ed White	(636) 219-2255
Vice President - Don Grzina	(636) 233-0193
Secretary - William Reape	(314) 568-0555
Treasure - Jose' Espinosa	(636) 947-6067
Safety Officer - Dave Evans	(636) 448-4800
Field Manager - Don Grzina	(636) 233-0193
Chief Flight Instructor - Ed White	(636) 219-2255
Event Coordinator - Dan Abel	(314) 707-0138

Send Membership Renewals to:

William Reape

234 Kildare Court

St Charles, MO 63366

Board of Directors:	Work	Home
Ed White	Retired	(636) 219-2255
Dan Sundman	(314) 749-4029	(314) 749-4029
Mitch Galatioto	Retired	(636) 734-6322
Dave Evans	Retired	(636) 448-4800

Phantom Flyers R/C Club Meeting Minutes – 15 January 2024

Attendees: 8 club members were in attendance, Meeting called to order at 7:00pm. Members were, Ed White, Mitch Galatioto, Jose Espinosa, Harold Weaver, Dan Abel, Don Grzina, Paul White, Bill Reape.

New Members: Don Jenkins

Technical Session: Jose showed the flight recorder module, "Flying Box" for recording the entire flight, especially helpful for Pattern flying. Parameters of the field can be downloaded and show several views of the flight on a computer after the flight. Plugs right into the power source in the plane. Can replay and compare multiple flights to show differences and corrections needed to fly a perfect flight. Cost is around $80.00. Jose and Don G. are using this presently in their models.

Secretary's Report: December newsletter was sent out highlighting the Christmas Dinner and Frozen Fingers Fly. No meeting minutes from December.

Treasurer's report: Jose reported the statement has not arrived as of the meeting time. Balance in reserve approximately $5,500.00. Checks are still to be deposited for membership dues.

Safety Report. No safety report was given, the position of safety officer for the club is available if anyone is interested. Please be "Safe" as safety is each pilot's responsibility.

Activities Report: Dan reported the Schedule will follow similar to 2023. The pattern Contest dates are still to be determined. Maybe later in the year was suggested to have cooler conditions.
February 3 2024 is a swap meet in Kansas City RC club.

GSLMA Report: Harold reported, no December meeting. Waiting on permit rules for the field.

Old Business: Bylaws were discussed and a motion was made by Bill Reape to change the bylaws to read: **"A New Member who joins** Phantom Flyers any time after July 1st, at the regular membership rate will be a paid member for the remainder of that year and the following year, 'Seconded by Jose Espinosa', Vote was passed.

The Bylaws were discussed and Bill Reape made a motion to increase the monthly petty cash spending by the officers from $100.00 to $250.00 for needed items. The spending will have to be approved at the next club meeting. Seconded by Jose Espinosa, Vote was passed.

New Business: Bill R. mentioned to have a open house event in July and promote new membership.

Meeting adjourned at 7:41 pm.

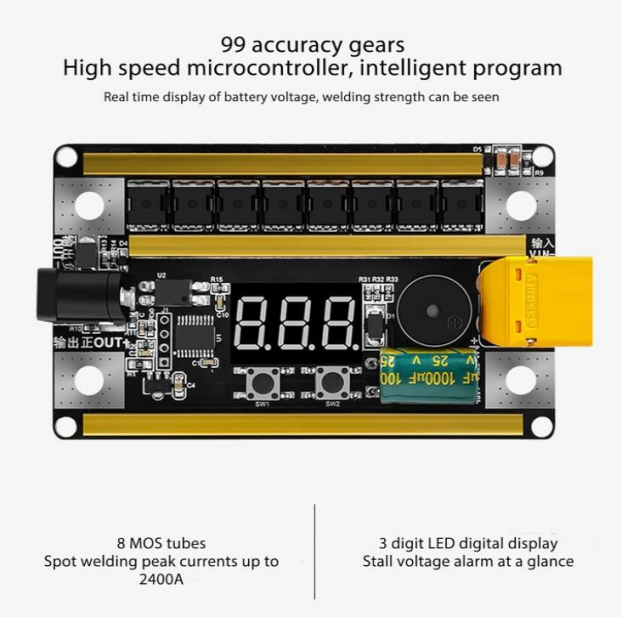
Respectfully submitted,
Bill Reape

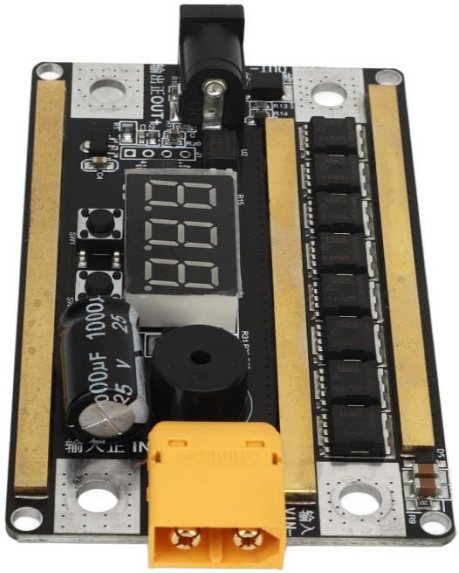
https://www.faa.gov/uas/recreational_fliers/knowledge_test_updates/

https://dronetrust.com/faa-trust/

Members Projects/Tech Session

The editor was given a 50.00 gift card to Amazon as a Christmas present. I have been wanting to try one of these out but looking a videos and reading the reviews it looked like it could be a waste of money. Enter the gift card! I could buy one and if/when it blows up, I will not feel too bad.





I selected the GX591 model only because I could 3D print a case for it and one was available on Thingiverse (a 3D modeler depository), for free.

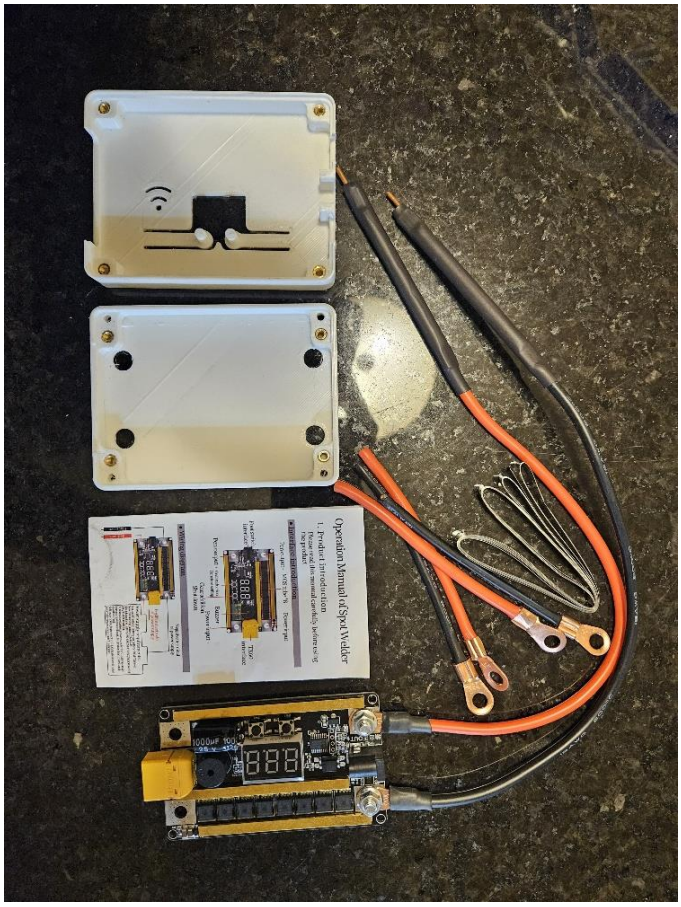
The spot welders, in simplified terms, takes the 12v input power(high current) and gives you a single pulse output of the 12v input power shorted across a nickel/tin strip that it welds to the battery tab beneath it.

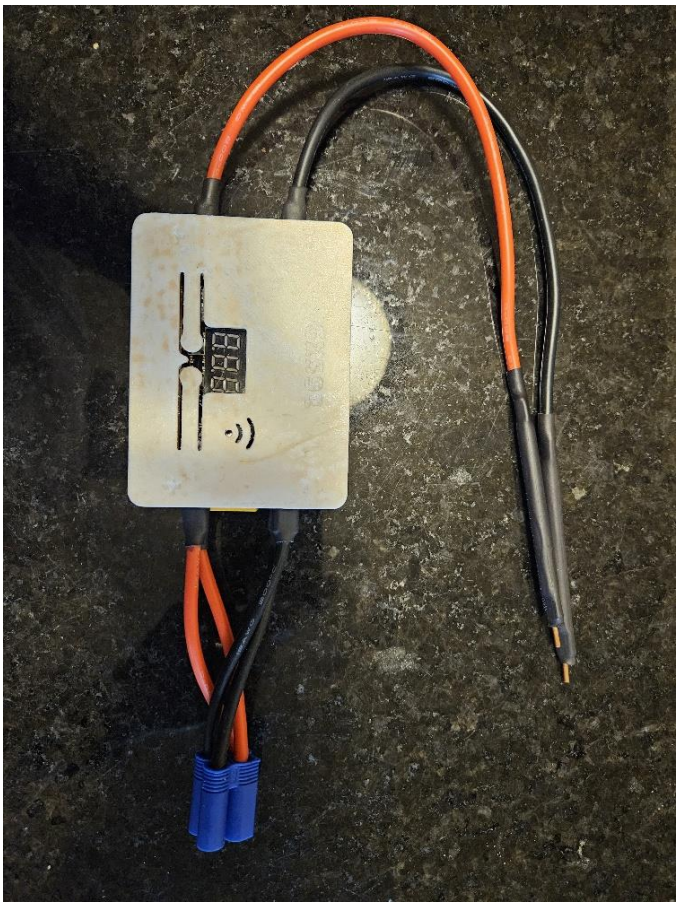
It should be pointed out that the 12v input power is also used to operate (turn on and off) the MOS FETs. So you take a input battery…short circuit the leads, via the MOS FETs, and depending on the mAH of the battery/source there may or may not be enough voltage to operate all the MOS FETs and this is when you let the smoke out…I think. :D

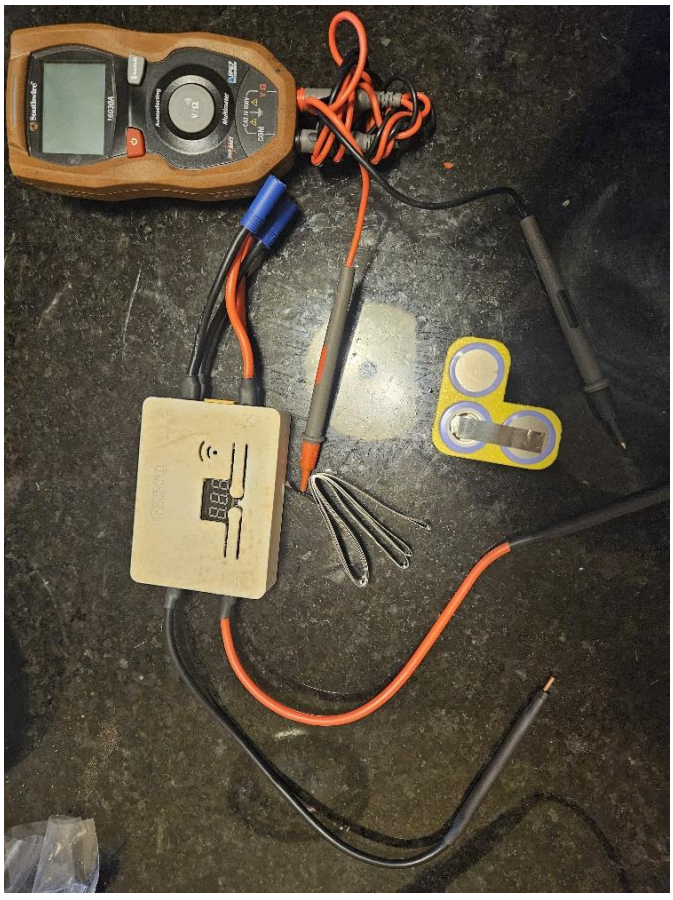
Capacity of the input/source is important and the installed XT60 connector allows one to use a 3S 4000-8000mAh Lipo battery.The board also has pads to use a automobile starting battery with at least 36-60Ah. The kit comes with leads with ring lugs suplied to connect a starting battery.

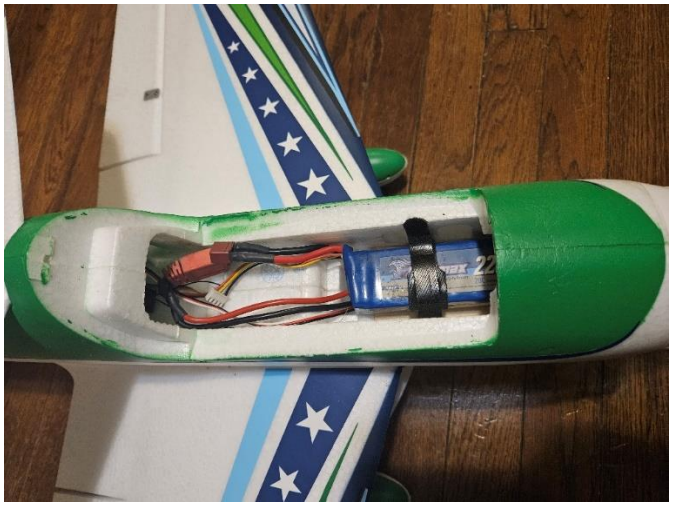
I opted to use the supplied leads to connect two 4500mAh in parallel giving me 9000mAh Lipos as opposed to a lead-acid battery. Even with this I am well below what the automotive starting battery supplies. What does this tell me? You can't have a marathon spot welding session with Lipos as the source, every weld is essentially shorting the battery leads together.

First 3S pack is assembled and the sparks that shoots off the leads when welding are impressive eye protection need as well as a fire safe area! I still need to get balance wires and main connector leads installed. This 3S 4000mAh pack will be used in my FMS Explore for testing. The 4000mAh Li-ion pack weighs 7.25oz versus the 2200mAh 6.5oz for the Lipo.


Operation Manual of Spot Welder
1. Product Introduction







Mitch was out enjoying some fabulous late January weather!

On February 6th, Mitch successfully committed aviation with his new (to him) Temptation pattern plane.

As reported and hopefully witness by Don!

Don’t forget to renew your membership!!

https://www.phantomflyersrc.com/wp-content/uploads/2023/12/2024-membershipform2.pdf

http://phantomflyersrc.com/
https://www.facebook.com/Phantom-Flyers-RC-Club-139791882811519/

Check there for the back issues of the Carrier Wave Newsletter, mowing schedule, event calendar and club roster/contact information (handy for mowing).

Articles, pictures and tech notes for publishing in the Carrier Wave are always appreciated. Let us know what you are building, repairing or flying!

Send them to:

kevcox@charter.net