



AMOS September 2020 Newsletter

AMOS Board Meeting Saturday 9/1/2020 @ 5 pm. – recap

Location: AMOS Field

Minutes of Previous Meeting: On **Motion** by John S, second by Doug K, the minutes of the previous Board meeting were **approved**.

Review of Post COVID 19 Field Guidelines: The Board decided to make no changes to our current guest policy which is as follows: Access to the field shall be limited to AMOS members, members of their family, and invited AMA members.

New Shade Awning: Dave C reported on progress. Shout out to Dick, Dave and Keith.

Control Line Area: The Board found no problem with using our designated control line area for control line flying and OKed putting out petromat to mark the center of the circle.

2021 Elections: We will ask for volunteers for the nominating committee at the September General Meeting. Nominations will be presented at the October General Meeting. Election of 2021 officers will take place at the November General Meeting. Prior to the vote at the November meeting, additional nominations from the floor will be permitted.

Orders for Club Apparel: John S will get the contact info for our usual supplier and will contact her for current prices. He will send the price information to all members, and they can tell him what they want us to order.

Gravel Expansion Project: Dave C reported that the tractor will be available all September and October. Jesse T wants to wait until the weather cools some. Work should begin in late September. When the date is set, Doug R will send out a request for volunteers.

Next Meeting: The September General Meeting will be held Saturday September 12 at 10:00 AM at the field.

Board Reports

Field Marshal Dave Correll: Dave reported that he bought three small fire extinguishers to replace the ones used at the recent jet fly, and he bought two larger ones, but we still need more. On **Motion** by John S seconded by Doug K the Board authorized Dave to spend up to \$300 for fire extinguishers. **Motion passed.**

Treasurer's Report: Doug K summarized the August Treasurer's report which is attached. On **Motion** made and seconded the Treasurer's Report was **Approved**.

Membership – Andrew Wilkins: Three new member since last report, and a total of 234 members.

Secretary Jody Kahan: Dues for 2021 are to be determined at the November General Meeting. The Budget for 2021 has to be presented at the November General Meeting and approved at the January 2021 General Meeting.

August Treasurers Report

8/1/2020 through 8/31/2020

Balance 8/1/2020 \$32,694.49

August Deposits	Field Improvement Fees	\$450.00
	2020 Membership Renewals	\$160.00

8/7/2020	Porta Potty	-133.50
8/13/2020	County Property Tax	-254.82
8/24/2020	Charitable Org Registration	-20.00

Balance 8/31/2020 \$32,896.17

Total Inflows	\$	610.00
Total Outflows	\$-	408.32
Net Total	\$	201.68

AMOS General Meeting Saturday 9/12/2020 @ 10 am. – recap

Location: AMOS Field Meeting called to order at 10:00 A.M.

The Meeting was cancelled: Motion by Doug K, second by Les K, to cancel the September General Meeting due to unhealthy air quality and low turnout. Motion passed.

Many Board and club members showed up but staying there in the smokey air was a issue for some.

AMOSRC 2020 Events

All Events for 2020 Have been Cancelled - Better Safe Than Sorry!!

Super Saturday flying on the days that the events were to be held is what is planned. Club members only, but each club member can bring a Guest to fly. All types of R/C planes can fly on those days the field isn't closed.

PA systems BBQ and Potlucks are optional and ok at any of these Saturday fun flys.

Oct 17th - Giant Scale Planes

Christmas Party - TBD!

Covid 19 Guidelines - Wear Masks and stay 6 feet apart - you can estimate 6 feet you don't need a tape measure!!

Event News!!

Sierra Foothill R/C Flyers Fun Fly Meeting, Fun Fly and BBQ at the AMOS Field - Oct 3rd

The Sierra Foothill R/C Flyers who are now in the Hunt for another Flying field had a Fun Fly, BBQ and Meeting at the AMOS field on Oct 3rd. The field was not closed for the Mini event and there was a mix if AMOS members and Foothill Fliers there on Saturday. Of course most of Foothill Fliers are members of both clubs anyway.

Dick Brace the club president set up the Mini event and did a great job. Not a huge turnout but it was fun day.

We hauled out the new Event BBQ and The Foothill Fliers donated some Hamburgers and we had a great BBQ with some tasty Burgers, Hot dogs and Hot links.

It was really nice to just have one event with a BBQ this year. It really shows how much we miss the Food and Flying events we couldn't have this year.

Hopefully next year we can resume with the Events!!

Soldering Connections for R/C Applications

Soldering your own connections for R/C modeling is a great hobby in itself. Buying the connectors and making up your own harnesses for batteries, ESC's and Chargers is really very easy. Most experienced modelers are experts at it.

You can save quite a bit of money from not having to buy these already assembled.

Most Batteries come with a connector installed that you might not use because it doesn't match the type of connectors your using on all your Batteries.

With connectors it's important to stick with the same type (Like a Deans Plug) on all your model connections. Aftermarket Deans style plugs are dirt cheap in quantity and are pretty good quality. The X60 and X90 yellow connectors are excellent also, some say the best!

Huge Money saver – If you find yourself switching to another type of power plug like Deans to the X60 or X90 or a mix of both you can make up some adapters. That way you can use your charging leads to charge a battery with the alternate plug. If you look specifically at the Deans and X plugs they can easily be soldered together using no wire, to make adapters.

Making adapters with other types of connectors is still easy – if they don't mate you can use some wire in between the connectors to make the adapter. Get the polarity correct when making the adapters. Add a good amount of solder in between the connections for high amps to pass through.



Tools and Accessories you will need:

A good Soldering Station like the WC100 - \$50 by Weller is a great Hobby Soldering Iron with regulator stand and lasts many years. Also the tips are easy to get and will be available for a long time because of the popularity of this iron. I have used one of these for 20 years with no problems. \$10 no regulator stand soldering Irons don't last long.

There are some after market soldering stations for as cheap as \$10-\$20 if you just want to experiment. If they have a regulator stand they might last a while.

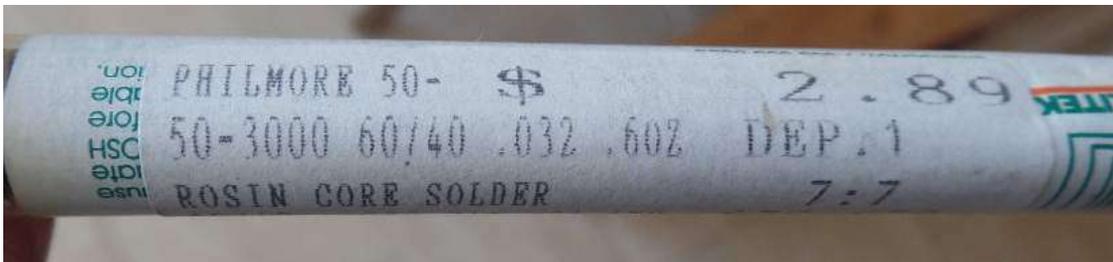
Most of these tools and soldering accessories are available at either Harbor Freight or Fry's electronics. Between the two stores you'll get all the stuff you need. The best price on R/C specific connectors and wiring is at Hobby King or Ebay. If you mail order R/C specific items you have to know what your ordering. Check - dimensions, gauge of the wire and amp capacity of connectors. Fry's and Harbor Freight have standard shrink tubing, solder and wiring.



Basic Soldering Tools and insulators



common R/C connectors



Solder 50-3000 60/40 .032 round available at Fry's or HK. Great stuff!!

You'll need some basic tools like - Wire Strippers, Pliers, Dikes and Scissors.

Soldering Accessories - Shrink tubing - different sizes and Electrical tape.

R/C Specific Items – Deans, X60-90 or other types of Connectors (High Amperage) for Lipo, Life and Lion Batteries. Banana Connectors (Low amp), usually for low capacity battery charging leads. Servo Lead wire. Charging harness parts, Glow plug driver parts and charger wiring will all be in your bag of parts after you become expert at soldering.

Making your Connections -

In this example I am installing a Deans connector onto the ESC battery input wires for a Electric Powered helicopter. All other connections use the same procedure whatever your soldering.

The Soldering station has a heat level control. This should not be turned all the way up. Start somewhere in the middle and turn up if you need more heat. Or a lower setting if your getting enough heat to do the job. All the way up will ruin your tips fast and can ruin parts.

1) Cut your wires Red (+) and Black (-) to equal lengths with some Dikes, and strip 1/4 " off the tip with some wire strippers.

2) When the soldering iron heats up add a small amount of solder to the iron's tip and turn it in the wet sponge in the Iron stand to tin the tip. The tip should now be silver. Repeat this over and over as you work. Keep that tip silver!! Also Tin after you finish soldering.

3) Tin the tips of the Wires and the Connector lugs before connecting them. Heat the contact point for a few seconds then add some solder.

You should have a shiny silver pad on the connector lug and the wire should be completely saturated from all angles with solder. This will take some practice!!

Watch the heat - this is time sensitive, too much heat can cause damage to the parts but too little won't let the solder flow correctly. Find that balance for the size of wire your working with.



Tinning the wire tips for the connector Tinning the connector lugs

A Tip for your Tip!! - When tinning thick wire don't put the Iron on the side of the bare wire while feeding in the solder from the other side, set the hot tip flat on the end of the wire. Feed the solder in from the side near the tip.

Solder will flow easier through the wire strands (similar to electrical current) while applying heat to the end of the wire instead of the side.

This makes the job much easier especially when your soldering heavy gauge wire.



Tin from the end

Setup your shrink tubing

Setup your shrink tubing before soldering the connector. While soldering push the tubing back so it doesn't shrink while your connecting the wires.



Apply heat to the connector lug for a few seconds then drop the wire on. Add enough solder and heat to make a good solid connection.

Tip: The Helping hand's alligator clip can be used to clip the wire on the lug while feeding in solder.

This makes the job much easier especially for thicker wire. You can go back and heat it up after taking off the clip - real quick, to get a nice solid silver ball.

Practice on junk electronics parts to get the hang of this.

Use a Blow Dryer or Covering heat gun to shrink the insulating shrink tubing on the lugs after you have made the connections.



Completed connection (Male Deans)

Clipping the wire while soldering

Keep the Plus and Minus orientation on your connectors, batteries and charging wires the same. Look at your charger wires to get the correct + , - wire orientation.

Soldering Connectors to Batteries



Deans Female

Connect and insulate before making the other connection

For the Battery connector the female side of the plug is used. This side of the plug has no extending connecting leads that can be easily shorted out. This applies to any type of new style Lipo/ Lion or Life battery connector.

The operation of soldering the wires to the connector is the same as on the ESC side but you have to be aware of the loaded voltage from the battery. Shorting out a large Lipo battery while soldering the terminals could cause a fire.

Isolate one of the Leads by taping it back so it can't touch the other lead. Solder and insulate one lead to the connector. Take the tape off and solder and insulate the other connection. Be careful with clips, iron tips and other tools you can still cause a short if they are cross the battery terminals.

Here's what the connections should look like after you solder.



Perfect solder joints



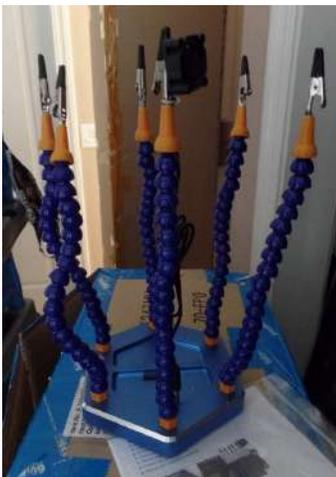
The cheap Helping Hand Tool

Small Problem while soldering:

The wires get really hot and you have to hold them in place for a few seconds before the solder solidifies. You'll scream ouch a few times!!

There are some heat proof gloves that can help. Holding the wire with hemostats or pliers can help but make exact placement of the wire a little harder.

New Improved Helping Hand tool available at Hobby King , Ebay and Amazon:



This Helping hand Setup even has a USB powered Fan to cool off your connection joints after soldering. Say goodbye to burning your fingers!

It has so many hands Medusa would be jealous!

Jokes:

NO Warning!

With no warning and clear out of the blue, a husband said to his wife, "Honey, I have invited a friend home for supper tonight."

His wife replied, "What? Are you crazy? The house is a mess, I didn't have time to go shopping, all the dishes are dirty, and I don't feel like cooking a fancy meal tonight!"

The husband said, "I know all that."

"Then why in the world did you invite your friend for supper tonight?" asked the wife.

The guy answered, "Because the poor fool is thinking about getting married."

Fast Mercedes!

A new Mercedes owner was out on an interstate for a nice evening drive. The top was down, the breeze was blowing through what was left of his hair and he decided to open her up.

As the needle jumped up to 80mph he suddenly saw a flashing red and blue light behind him. "There ain't no way they can catch a Mercedes," he thought to himself and opened her up further. The needle hit 90, 100 110 and finally 120 with the lights still behind him.

"What in the world am I doing?" he thought and pulled over. The cop came up to him, took his license without a word, and examined it and the car. "I've had a tough shift and this is my last pull-over. I don't feel like more paperwork so if you can give me an excuse for your driving that I haven't heard before, you can go!"

"Last week my wife ran off with a cop," the man said, "and I was afraid you were trying to give her back!"

Mike is Dead!

Donna's husband Mike died suddenly one day. Donna was taking care of the funeral arrangements with the undertaker when she was asked how she wanted Mike's obituary to read. Donna asked the undertaker, "How much does an obituary cost?" The undertaker replied, "One dollar per word."

Donna then said, "I want the obituary to read - MIKE IS DEAD."

The under taker was an old fishing buddy of Mike's and he was a little disturbed by such a curt obituary, so he offered,

"I'll make you a special deal since I knew Mike so well. I'll pay for half of the obituary out of my own pocket."

Donna's face lit up and she replied,

"Great. I want it to read - MIKE IS DEAD, BOAT FOR SALE."