



## *AMOS July 2016 Newsletter*

### *AMOS Board Meeting 7/5/17 @ 7:00PM – recap*

*Guests Present: Doug Keller, Bob Crawford*

*Approval of Board Minutes: The minutes of the previous board meeting were approved.*

#### *Unfinished Business*

*Christmas Party* Mike Haston: Zero response to email to members seeking volunteer to organize Christmas Party. Motion by Geordan White, Second by Van Berg, to not hold Christmas party this year due to lack of participation. Motion passed with Randy Sizemore voting no.

*Petromat* Mike Haston: W/D has new petromat, very heavy duty. Looks much more durable than ours. Something to consider in future.

*Rent Increase* John Sorenson: Received letter from County. Per terms of our lease, rent increases in accordance with cost of living to \$576.75/month, \$6,920.94/year, starting this August.

*Fire Extinguishers and Equipment* Van Berg: Purchased new fire extinguishers and mattocks. Mattock is wider than a polaski. Also, for future reference, knows someone who can recharge and recertify fire extinguishers which costs less than buying new.

#### *New Business:*

*Tow behind mower decks* Mike Haston: Self powered 60" mower towed behind riding mower. More able to cut tall grass. Cost \$1,300-\$1,400. Something to look into next year. W/D has them.

*Chairperson for AMOS Future Project Discussion:* Reach out to people who maintain field and who put on events. Concern about condition of road. Parking lot needs work. Membership increase likely due to Mather losing field. Expansion of parking area requires approval by County. Motion by Jim Irey, Second by Mike Haston that John Sorenson be Chairman of the Committee to recommend and prioritize future field projects. Motion passed.

**Donation to Disabled American Veterans Discussion: Wounded Warrior Project (WWP) pays only small percent of contributions to benefits for veterans. Disabled American Veterans (DAV) applies about 96% of contributions to benefits for vets. Motion by John Sorenson, Second by Van Berg, give donations collected for National Model Aviation Day to DAV rather than WWP. Motion passed.**

**Board Reports:**

**Membership Jim Irey. 217 members.**

**Contest Coordinator/Public Relations Geordan White - Events are going great. He Needs to get flyer for Aviation Day from John Hainlen.**

**Past President John Sorenson - We need a new windsock. Motion by Geordan, Second by Glen: President to purchase new windsock from AMA. Motion Passed. Cost approximately \$61.**

**AMOS General Meeting 7/11/17 @ 7:00PM – recap**

**Guests/New Members: Dianne Erickson, Leonard D'Amico**

**Unfinished Business:**

**Christmas Party - President: Sent email to all members asking for volunteer. No response. Discussed at Board meeting. Board decided not to put it on. Asked the meeting if anyone volunteers to put it on. Jim Hill: He and Carmel willing to organize it again, if club wants to do it at Turkey Creek. Motion by Doug Keller, second by Jim Irey to not have Christmas Party in 2017. Motion passed. Glen Gibson and John Hainlen: Planning a restaurant dinner instead for anyone who wants to come. Will notify members of time and place.**

**Fire Extinguishers - President: New fire extinguishers now located each end of flight line and at frequency board. Mattocks in storage container.**

**Petromat - President: Woodland/Davis has new petromat. Very impressed. Thick, heavy duty, rubberized. To be considered for future use by us.**

**New Business**

**Bill Howe (planes and stuff donations) Former member. Passed away last year. His Son is donating his R/C planes and accessories to club. John Sorenson: there's no need for any more trainers. He suggests that we auctioning off the stuff.**

**Committee for future field improvements: President: John Sorenson will be chairman of**

*committee to study, prioritize, and propose future field improvements. Other members are Van Berg and Doug Keller. John Sorenson: General consensus is no big projects.*

*Won't recommend putting club into debt. Anyone with suggestions should contact John.*

*Rent Increase- John Sorenson: Three years to go on our lease. Per terms of lease, there is a cost of living increase in August from \$560/month to \$576/month.*

*Portable PA System - President: We now have a portable PA system which we will share with Woodland/Davis. Will be stored in container. Runs on battery or generator.*

*Web Site - President: Was contacted by web site administrator who claims to have thirty RC clubs as clients and offers upgraded web site for a fee. Ian Shere administers our site for free.*

*After discussion Motion by Jim Irey, second by Rich Nowatzki to not consider the proposal. Motion passed.*

**Board Reports:**

*President Mike Haston - Will undergo heart surgery next week. Randy will take over while he recovers. Mercy General, 4001 J St, Sacramento, in case you want to visit Mike. Good luck, Buddy.*

*Secretary Jody Kahan - Wondering if there would be interest in an event next year for flyers to bring planes they have kit-built or scratch-built themselves. Seemed to be some interest.*

*Membership Jim Irey - 219 members. Note that swap meets after this Saturday will be on second Saturday each month.*

*Safety Officer Van Berg - Offers unfinished wood backings for Aeromodeler of the Year plaques. Jim Irey: might be easier and cheaper to buy them already finished.*

*Past President John Sorenson - Futaba transmitter with Tactic 2.4ghz module donated to club, if anyone wants to buy it for \$10 or \$20.*

## **AMOS 2017 Events Coming Up!!**

**August 12, Saturday, Electric Fun Fly, John Hainlen - In a few days!!**

*There will be a swap meet held early in the day. For the Electric fun fly there will be some fun flying events like Limbo and a Spot Landing Contest. Donations for Disabled American Veterans will be collected. This Event is Free. The Field will be closed for any other type of R/C Models but is usually over by 1:00 or 2:00, so Fuel powered R/C models can fly later in the day.*

**September 9th, Saturday, Combo Event - Presidents Fun Fly and General Meeting , Held before flying starts, - Fly and 2nd that Motion!! Hopefully not at the same time!!**

*Hot dogs and hamburgers are free to all members and their families.*

**September 29th to Oct 1st, Fri - Sun, Jet Fly, Randy Sizemore**

**October 7th, Saturday, AmoBro Fun Fly**

**October 14 and 15<sup>th</sup> - Nor Cal Huckfest at the AMOS field- Basil Yousif, Gary Meyer and Geordon White. Don't miss this one!!**

### **Local Club Events:**

**August 19 - Warbirds Over Livermore - The Livermore Flying Electrons, 4455 Raymond Rd., Livermore. Totally free. All participants welcome. Lunch included. Wives welcome. If you go, wear your AMOS logos. For further info: <http://www.lferc.com/downloads/WOL2017.pdf>**

### **AMOS New Helicopter Pad Area Update:**

*To complete the new Helicopter Pad area we need \$2,000.*

*For \$2,000 Jesse will Grade the area for the New Pad, Shade area and small parking spot. Then he will apply AB and Roll it out. Our AMOS Helicopter group and anyone who wants to help will install the Petromat and Shade cover.*

*We have \$500 - from our club*

*Donations so far - Basil Yousif - \$200 - Send me a E-mail if you would like to donate - Gloria Irely will collect funds so the donations are properly logged as club transactions.*

*Paul Erickson -\$200 = \$900 so far we need another \$1,100 in donations to go!!*

*This new area to fly will be a fantastic addition to the club site.*

*Along with Helicopters, Multi Rotors and other types of Models can be flown there. The Helicopter flying will be further away from the parking lot and the airplane field, making it a much safer area to fly helicopters, Multi Rotors and I forgot to mention - Gliders!!*

*And of course no sun in the eye's while flying!! Work to start in November 2017*

## Soldering Connections for R/C Applications

Soldering your own connections for R/C modeling is a great hobby in itself. Buying the connectors and wiring 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 made up.

Batteries always come new with a connector installed that you aren't going to use. 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.

### Tools and Accessories you will need:

A good Soldering Station like the WC100 by Weller is a great Hobby Soldering Iron with regulator stand and lasts many years. Also the tips are easy to get. There are after market soldering stations for \$20 if you just want to experiment. The WC100 is \$40.

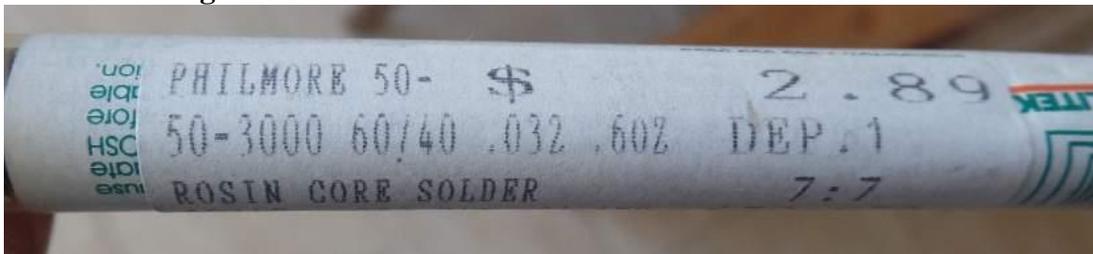
Most of these tools and soldering accessories are available at either Harbor Freight or Fry's electronics. Between the two stores you'll get all the stuff you need. The best price on R/C specific connectors and wiring is at HobbyKing. If you mail order R/C specific items you have to know what your ordering. 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



Most common R/C connectors



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

The helping hand is a great tool. It has a weighted stand with alligator clips that hold your wire or connectors while you solder.

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 or other types of Battery Connectors (High Amperage) or Banana Connectors ( Low amp). Servo Lead wire. Charging harness parts, Glow plug driver parts and charger wiring will all be in your bag of parts after you become a expert at soldering.

### Making your Connections -

Here were installing a Deans connector on the ESC wiring on a 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.

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 iron heats up add a small amount of solder to the tip and turn it in the wet sponge in the Iron stand. The tip should now be silver. Repeat this over and over as you work without adding solder. Keep that tip silver!! Tin after you finish soldering.

3) Tin the tips of the Wires and Connector lugs by holding the iron on the wire or connector lug. 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.



Tinning the wire tips for the connector

Tinning the connector lugs

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

Solder will flow easier through the wire strands moving through like electrical current. Feeding solder from the side of the wire makes it hard for it to flow into the stream of wire strands.

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. 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.



Deans Female

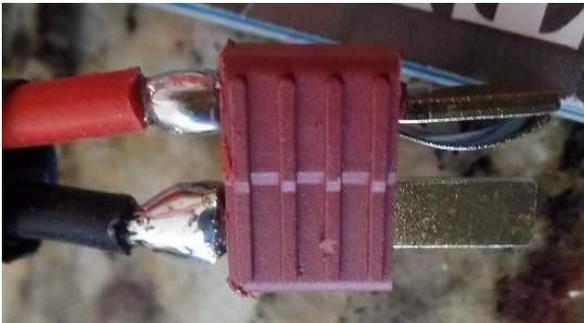
Connect and insulate before making the other connection

For the Battery connector the female side of the plug is used. This side of the plug has no extending connecting leads that can short out.

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 plug. Take the tape off and solder and insulate the other connection. Be careful with clips and other tools you can still cause a short.

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



Perfect solder joints



The 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 out a few times!!

There are some heat proof gloves that can help. The Helping hand tool also helps quite a bit.

*Mike Kohler's Cartoons and Jokes:*



*The Talking Dog*

A guy is driving around the back woods of Montana and he sees a sign in front of an old broken down shanty-style house: "Talking Dog For Sale". He rings the bell and the owner appears to say the dog is in the back yard. The guy goes into the back yard and sees a nice looking golden Labrador retriever sitting there.

"You talk" he asks.

"Yep" the dog replies.

After the guy recovers from the shock of hearing a dog talk, he says "so what's your story?"

The Lab looks up and says "Well, I discovered that I could talk when I was pretty young. I wanted to help the government, so I told the CIA. In no time at all they had me jetting from country to country, sitting in rooms with spies and world leaders, because no one figured a dog would be eavesdropping."

"I was one of their most valuable spies for eight years running. But the jetting around really tired me out, and I knew I wasn't getting any younger so I decided to settle down. I signed up for a job at the airport to do undercover security, wandering near suspicious characters and listening in. I uncovered some incredible dealings and was awarded a batch of medals".

"I got married and had mess of puppies and now I'm just retired".

The guy is amazed. He goes back to the house and asks the owner what he wants for the dog.

"Ten Dollars".

"TEN DOLLARS? This dog is amazing! Why on earth are you selling him so cheap?"

"Because he's a liar. He never did any of that stuff."