



AMOS April 2016 Newsletter

AMOS Board Meeting 4-4-16 @ 6:00PM - recap

Unfinished Business

1. Proposed Rule Changes (FAA Mandatory Registration).

There was general discussion of procedures to require members to be in compliance with FAA regulations.

President Mike Haston said he had found out that Sierra Foothill Flyers require FAA numbers on planes, Mather Aerospace Modelers require flyers to show their FAA card. He made a proposal to add more requirements to our constitution to verify FAA compliance.

After discussion it was concluded that it isn't necessary to amend the constitution, but it was concluded to present the following procedures for approval at the general meeting:

1. All new members must affirm on their application form that they will follow all applicable FAA rules.

2. All renewing members must affirm on an application form or other form that they will follow all applicable FAA rules.

3. We will add to the rules posted at the field that all pilots must follow FAA rules.

4. Flag Poles;

It was concluded to place the flag poles so that one is next to the frequency board and the other is at least eight feet away in the direction of the first set of awnings so that it is near the southeast edge of the shade structure.

5. Security;

It was concluded that a video surveillance system would not be effective. A proposal was made to make a motion at the general meeting to purchase a fake camera and a sign stating the premises are monitored. The proposal was dropped.

6. Loan Payment;

Treasurer Gloria Irey proposed making a \$3,000 payment on the club's outstanding loan. Discussion followed concerning the club's need for funds to maintain the field. After discussion the following MOTION was made, seconded, and passed for approval at the general meeting:

The Club will pay \$2,000 of principal on its outstanding loan. Any accrued interest will be capitalized.

New Business:

1. New Lawn Mower;

Bob Crawford has offered to donate a riding mower in good condition, believed to be 42" or 48" in exchange for forgiveness of three years dues. After discussion the following MOTION was made, seconded, and passed for approval at the general meeting:

The club will accept a riding mower from Bob Crawford in exchange for forgiveness of three years dues, on condition that John Sorenson inspect the mower and conclude it is in good condition.

2. Seed Money;

President Mike Haston said that \$500 of seed money for non-sanctioned events is more than necessary. After discussion the following MOTION was made, seconded, and passed for approval at the general meeting:

The Club will provide \$500 seed money for sanctioned events and \$100 seed money for fun-flies.

3. Communication Protocol;

To promote openness in Board discussions, it was agreed that e-mails between board members on anything important should be cced to the entire board. Communications to the president or vice president that are not cced to the entire board may be distributed to the board members at the discretion of the president or vice president as the case may be.

4. Red Barons Unlimited Guest Privileges;

Section 2 of Article IV of the club Constitution presently provides Red Baron's members have unlimited guest privileges. President Mike Haston stated that he thinks we have met our obligation to the Red Barons and no longer have to provide this privilege. Discussion followed. After discussion the following MOTION was made, seconded, and passed for presenting at the next general meeting: Section 2 of Article IV of the club Constitution which presently provides "Red Baron's members have unlimited guest privileges" shall be deleted. Section 3 of Article IV which presently provides "Individuals who are active military have unlimited guest privileges" shall be renumbered as Section 2.

Since this is a constitutional amendment, it will be presented to the members at the next general meeting and be voted on at the May general meeting. A vote of 2/3 of the members present at the meeting is required to pass.

5. Guest Speaker;

President Mike Haston reminded the Board that we will have a guest speaker at our April general meeting. His name is Ben Gilmore and he was an F-86 Sabre pilot in Korea

6. Zip Ties, Shade Structures;

Field Marshall Glen Gibson said zip ties that hold down shade covers keep breaking. Proposes steel cable as possible alternative. Randy Sizemore stated that Woodland Davis uses woven rope hold downs with good success. Concluded to look into the cost of nylon rope.

Board Reports:

Secretary Jody Kahan; Will prepare an updated version of club Constitution which will include amendments made since last update. Will circulate to Board members after vote on amendment at the May general meeting.

Treasurer Gloria Ire;

She has prepared March Treasurer's report. (See report and cash flow projections, attached.) Outstanding loan will be down to about \$18,500 after \$2,000 principal payment.

Safety/Training Marvin Bennett. Reported that John Kinney has donated a Multiplex Cub for the training program.

Membership Jim Ire;

We now have 196 members. Three still haven't paid. AMA now has system for all new members where their membership expires every year in the month they joined. This is a possible problem for us because a member's AMA could expire before he has to renew his AMOS membership.

Contest Coordinator/Public Relations Hilton Sorkazian;

President Mike Haston stated that Hilton created the flyer for the Warbird event, and he did an awesome job.

Field Marshall Glen Gibson; See Zip Ties, Shade Structures, above.

Past President John Sorenson; Talked about new liquid material that can be poured to create "instant runway." Worth looking into next time our lease is renewed.

AMOS GENERAL MEETING Date: April 12, 2016 @ 7:00 PM recap

Unfinished Business

Proposed Rule Changes (FAA Mandatory Registration)

There was general discussion of procedures to require members to be in compliance with FAA regulations. After discussion on a MOTION made, seconded, and passed by voice vote, the following RULES were adopted:

1. All new members must affirm on their application form that they will follow all applicable FAA rules.
2. All renewing members must affirm on an application form or other form that they will follow all applicable FAA rules.
3. The rules posted at the field will include that all pilots must follow FAA rules.

New Business:

1. Loan Payment;

The President stated that the Board had considered making a \$3,000 payment on the club's outstanding loan but that in light of the club's need for funds to maintain the field had concluded to pay \$2,000 of principal.

2. Security;

Vice President Randy Sizemore has purchased two security cameras for the field. One will be placed near the gate, the other by the storage container. He has also purchased a sign stating that the premises are under video surveillance. Total cost, \$32.00.

3. New Lawn Mower;

John Sorenson reported that we continue to have maintenance problems with our lawn mowers. After making repairs, we have four usable mowers. He has checked out a 42 inch cut eighteen horsepower mower that Bob Crawford wants to sell to the club in exchange for forgiveness of three years dues. The mower runs and sounds good. He made the following MOTION which was made duly seconded, and passed by voice vote:

The club will purchase a 42 inch cut eighteen horsepower riding mower from Bob Crawford in exchange for forgiveness of three years dues.

4. Seed Money.

President Mike Haston said that \$500 of seed money for non-sanctioned events is more than necessary. After discussion the following MOTION was made, seconded, and passed by voice vote:

The Club will provide \$500 seed money for sanctioned events and for the RC Country Swap Meet. All other events will get \$100 of seed money.

5. Red Barons Unlimited Guest Privileges;

There was extensive discussion of how members of the Red Barons came to have flying privileges at our field and whether such privileges should continue. After discussion, on MOTION duly made, seconded, and passed by voice vote it was concluded that the following constitutional amendment will be voted on at the next general meeting:

“Section 2 of Article IV of the club Constitution which presently provides “Red Baron's members have unlimited guest privileges” shall be deleted. Section 3 of Article IV which presently provides “Individuals who are active military have unlimited guest privileges” shall be renumbered as Section 2.”

Upcoming Events:

Board Reports:

Vice President Randy Sizemore;

Looking for a venue for the Christmas Party. He has been given a 27% Ultimate Biplane ARF which he would like to build out as a complete receiver ready plane and offer as a raffle prize. To do this he will need donations of a gas engine and servos. John Hoppie (Woodland Davis member) is willing to do the build. Randy suggests paying him \$75 to \$100. Any other donations of raffle prizes would be appreciated.

Safety/Training Marvin Bennett;

Six to seven students have shown up for each training session and gotten two flights per person. New pilot handouts are printed and ready. John Kinney has donated a Multiplex Cub for the training program.

Membership Jim Irey;

We now have 198 members. He proposes three new tables for the new shade structure. He will build with help from volunteers. Materials will cost about three hundred dollars. Approval given for Jim to request donations to cover the cost.

Field Marshall Glen Gibson;

New shade cover structure to be completed Wednesday.

Past President John Sorenson. Made a MOTION to hold a raffle at the Lincoln Air Show.

AMOS 2016 EVENT CALENDAR

June 11th - Warbirds Over Roseville - Mike Haston - www.warbirdsoverroseville.com

June 24 – 26 Jet Fly - Jet Fly - June 24-26 Thunder Valley Jet Rally -EDFs allowed

August 27 Electric - John Hainlen

September 10 - President's Fun Fly Mike Haston

Sept 24 - Giant Scale - Gary Meyers and Basil Yousif

October 7-8 - AmoBro Profile Model Fun Fly - Randy Allen

December (TBD) - Christmas Party - Randy Sizemore

Local Air Show Events:

Lincoln Air Fest -

June 11th - Lincoln Airport - June 11th Air Show with Full Scale Aircraft and a Short R/C Aircraft flight display put on by AMOS members within one 30 minute flight window from 11:30 to 12:30.

The Demo has been sanctioned by the AMA, thanks to John Sorenson for his coordination efforts on our behalf.

R/C Aircraft Pilots will be taking off on taxiway A between D and G, almost 1000' of runway! The Airport will be open during our demo so ceiling is limited to 400'.

Taxiway A will be closed to GA airplanes during the demo.

At: Lincoln Airport

<u>AMOS Pilot's</u>	<u>Aircraft(s)</u>
Bob Deatherage	Extra
Keith Roberts	Giant Super Decathlon
Mike Rutledge	L-4 Cub, F-4 Ground Demo
Keith Fick	Boomerang Elan Turbine Jet
Basil Yousif	Extreme Flight 100cc Yak and Raptor 60 Helicopter
John Sorenson	(TBD)
Doug Keller	Security

Contact Keith Roberts 916-955-3104 keithr@ltgsys.com for more information.

Testing R/C flight pack components for Voltage and Amp Draw

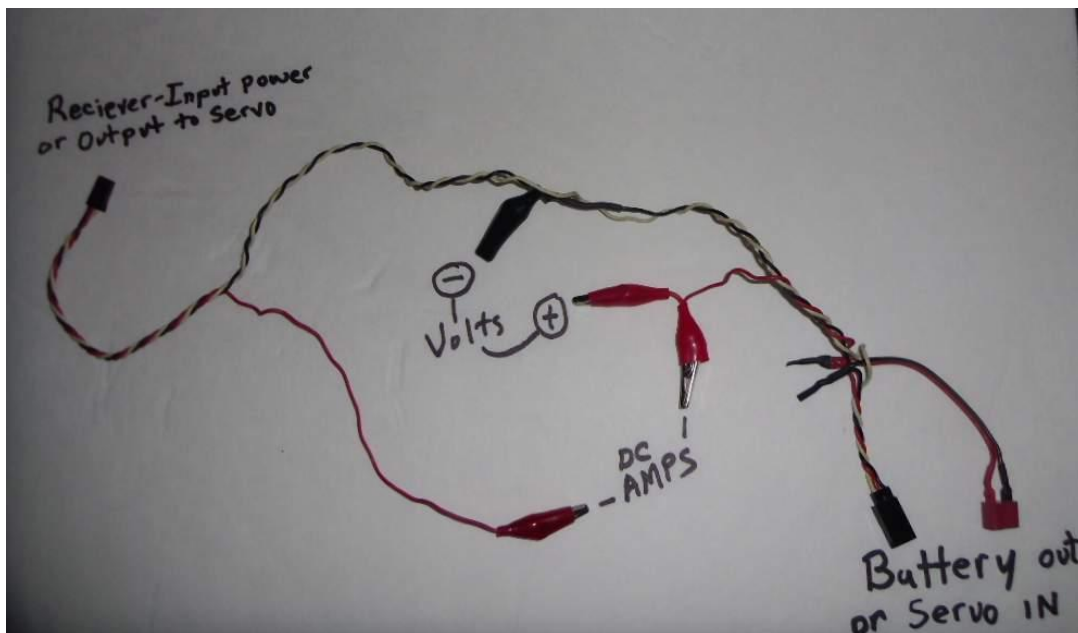
When installing the components of a R/C system - Receiver, Servos , Switches, Motors and wiring the modeler is usually at the mercy of the manufacturers that produced the components for how efficiently they work. Sometimes how you use those components together can cause a problem. Those older servos you got out of that cheap plane at the swap meet could have a binding gear train but still work.

A good way to check the installation is to test for Amps and Voltage after you have installed everything and compare that with the current drain listed for the parts being tested or a known good setup.

A basic harness can be built and cut into the desired circuit to test for Voltage and Current drain.

To make one that works for most R/C applications you can start with a Servo extension (22w wire best). Cut the red wire and install two alligator clips on each end, this is for amp measurement. Install another clip on the black wire without cutting it. This is for the negative side of the voltage measurement.

Here's a diagram of a standard Test Harness setup:



Different plugs like deans connectors can be added as needed.

Example 1: Checking a Mechanical Retract setup for binding

How do you know when the servo installed for a mechanical retract servo has reached the end of its travel. The end point can't be adjusted on the radio for these servos. Use the test setup to help you check for high current drain for servo up and down.

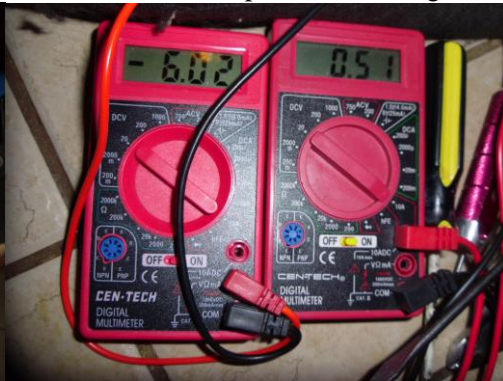
Retract down no binding

Volts - 6.6 (life bat) Amps .01



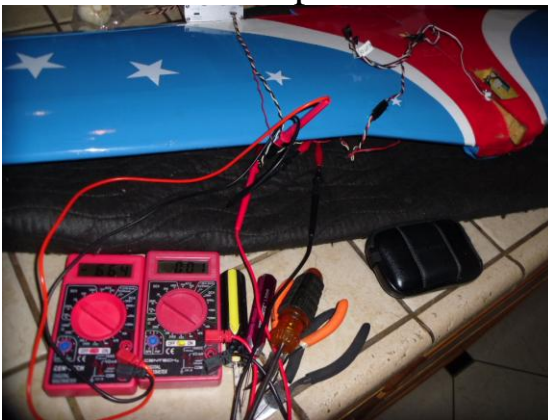
Wheels up Wow!!

Volts 6V - Amps .51 - Binding!!!



Notice the big drop in voltage the battery is heavily loaded.

After adjustment of the mechanical pushrods there is no draw for
For the Wheels up condition.



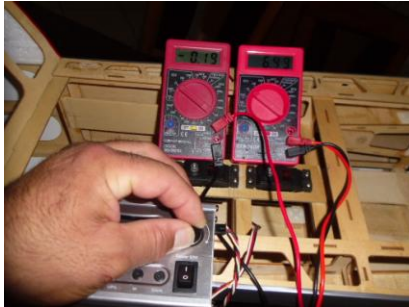
I used a servo tester instead of the receiver and battery in the plane. For each application there are shortcuts that can make the troubleshooting and repair easier.

The .6 volt drop could overload the battery and cause a crash especially when other servos are increasing the amp draw.

Example 2: Giant Scale Servos pulled from a Older Model

I had got a good deal on some Giant Scale Planes. The larger one had to be disassembled and the parts had to be tested. A set of Futaba Rudder servos were diagnosed.

Test Setup



First Servo Okay 6.48 volts
.13 amps



Second Servo Not Good!!
6.03 volts and .53 amp draw -
jumped to 1.5 amps



After Cleaning and lubricating
the gear train on both Servos
6.58v - .01 amps At rest



6.44 volts and .13 - .80 amps
while being activated, this is normal
especially when the voltage drop wasn't drastic while activating them.



This testing can be adapted to test motors or any other electrical part in the system. Plugs and wiring can be tailored to fit. The limit for most cheaper meters is 10 amps.

Switches - "Another Big Failure point" - make sure they are heavy duty and good quality. Many work good new and fail because of vibration, fuel intrusion and re-use after crashes. Also if the switch can't pass high amps the contacts can burn out like a fuse.

Jokes:

ROBOT FOR SALE:

A father buys a lie detector robot that slaps people when they lie. He decides to test it out at dinner one night.

The father asks his son what he did that afternoon. The son says, "I did some homework."

The robot slaps the son.

The son says, "Ok, Ok, I was at a friend's house watching movies." Dad asks, "What movie did you watch?"

Son says, "Toy Story."

The robot slaps the son. Son says, "Ok, Ok, we were watching p*rn."

Dad says, "What? At your age I didn't even know what p*rn was." The robot slaps the father.

Mom laughs and says, "Well, he certainly is your son." The robot slaps the mother.

Blonds Password:

During a recent password audit, it was found that a blonde was using the following password:

MickeyMinniePlutoHueyLouieDeweyDonaldGoofy

When asked why such a big password, she said that it had to be at least

8 characters long.

AMOS Newsletter prepared by: Basil Yousif, Send Newsletter feedback and topic info to - basil.yousif@sbcglobal.net use AMOS Newsletter as the Subject for the E-mail. Also see the clubs website at www.amosrc.com for more field information and Flyers.