



AMOS August 2021 Newsletter

Board Meeting Recap – 10am 8/3/2021 AMOS Field

New Business

Minutes of Previous Meeting: On Motion duly made and seconded, the minutes of the previous board meeting were approved.

More Circular Tables: Dave L reported that Dick B is willing to construct three more of the circular tables (set on shade structure poles) for \$1,000. Jody K reported that the field improvements budget for the year is \$5,000 of which \$2,413 has been spent and another \$1,000 has been committed which leaves approximately \$1,600 available. Dave L stated that he does not foresee any additional field improvement projects this year. Dave L made a MOTION which was seconded by Jody K that the club spend \$1,000 to have Dick B construct three additional circular tables to be installed on shade structure poles by the Field Marshal. MOTION PASSED. THIS EXPENDITURE REQUIRES MEMBER APPROVAL AT THE NEXT GENERAL MEETING.

Drinks for Training Day: Geordan has not been able to get out to training with drinks and ice. Dave L said he would take care of it.

Badges: Doug R said it would be a good idea for all of us to encourage members to wear their badges because it helps us get to know one another.

Field Rules to be posted on Vinyl Banners: The Board believes it would be a good idea to post the most important field rules on banners on the safety fence. Dave L will talk to John S to determine which rules should be posted. Doug R will advise the members we are doing this.

Volunteers for Jet Event: Dave L says he is making a detailed roster and will be sending out a request for volunteers.

New Windsock and Weather Station: Dave L said he would, at his own expense, replace the existing wind sock with a new sock, a new pole, and a solar powered weather station which would link with the club's website. The new pole would be placed where it would be effective but more pleasing aesthetically than the present location. On a MOTION by Dave L, seconded by Doug K, the foregoing was APPROVED SUBJECT TO MEMBER APPROVAL. **Proposal for County Liaison:** Dave L made the suggestion that the club consider creating a Board position of County Liaison to interface with the County and interface with area schools. The Board reaffirmed that John S is the liaison with MRF and rejected the proposal.

Officers' Reports

Field Marshal – Dave Long: Trusses for shade covers 1 and 2 will be done in September or October. Solar power for field cameras is installed. Petromat has been laid out at the north end and south side. Start up areas for turbines are marked. Runway has been restriped. Cross runway striped. The orange material on the safety fence is temporary. Final material on the main fence will be jet resistant. The material that hangs below the crash bar will be soft. There is a water fire extinguisher in the Gazebo and six on the ATV. Future projects will be edging along the path, paint in the gazebo. Metal table tops for the food service area are on order. Fire extinguisher training will be offered at the next general meeting.

Membership – Andrew Wilkins: Absent. Doug R reported that Andrew will send out an email advising members they can now pay their dues on the AMOS website.

General Meeting Recap – 10am 8/14/2021 AMOS Field

New Business

Minutes of Previous Meeting: Motion made and seconded to accept the Minutes of the May General Meeting. Motion passed

More Circular Tables: Doug K reported that (1) the Executive Board had approved a motion that the club spend not more than \$1,000 to have Dick B construct three additional circular tables to be installed on shade structure poles, and (2) that the club has money in the field improvements budget to cover it. After discussion, Geordan W made a MOTION which was seconded by John Schively to approve the foregoing Board action. MOTION PASSED.

New Windsock and Weather Station: Doug K reported that the Executive Board had approved a proposal by the Field Marshal that the club replace the existing wind sock with a new sock, a new pole, and a solar powered weather station.

The new pole would be located between the gazebo and the storage shed. Jody K added that under the plan approved by the Board, there would be no expense to the club. After discussion, on a MOTION by Tom A, seconded by Geordan W, the foregoing was APPROVED.

Board Reports:

- **Treasurer Jody Kahan:** July Treasurer's report was included with the August Executive Board minutes. Jody reported that the club currently has approximately \$42,000 in cash of which \$12,800 is committed to the field replacement fund. The remaining funds are in excess of the club's current needs for operations, and more will probably be added to the field replacement fund at the end of the year. On MOTION made and seconded, the foregoing report was APPROVED.
- **Membership Andrew Wilkins:** 206 members prior to the meeting plus one new member. Members who renew for 2022 will be able to do so on the club's website.
- **Safety/Training Officer Geordan White:** Pilots are urged to stay behind the safety fence and to call their take-offs and landings.
- **Contest Coordinator Basil Yousif:** We made \$140 at the Electric Fun Fly and spent \$130. The \$10 net was rolled into the President's Fun Fly along with leftover food.
- **Past President John Sorenson:** John reported that Fastrack Hobbies had donated two \$25 gift cards for prizes at the President's Fun Fly and had also invited AMOS to put up a banner at the store. Tom A made MOTION to put up a banner at FSH which was seconded by Andrew W. MOTION PASSED. John also reported that he had talked to Eric Oddo about the stargazing group's request to put up a viewing station at the field which Eric said he would take under consideration.

**AMOS RC CLUB
TREASURER'S REPORT
DATE AUGUST 31, 2021**

	Current Month	Same Month Last Year	Year To Date	Last Year To Date	Budget (Full Year)
INCOME					
Membership Dues	21	160	12,116	9,310	25,440
Field Improvement Fees		450	3,450	3,170	3,750
Late Fees			160		-
Event Revenue	1,744		6,519		3,500
Donations, Cash			287	1,153	500
Interest Earned			1		
Other	107		192	70	-
Total Income	1,872	610	22,725	13,703	33,190
EXPENSE					
Field Lease	623		4,987	4,447	7,592
Porta-Potty	142	134	1,156	1,068	1,602
Event Costs	57		2,418		400
Field Maintenance			239	1,136	3,000
Supplies					1,000
Website Maintenance			330	206	770
County Taxes	256	255	256	255	255
Training Costs					200
Recognition Awards					400
Filing Fees					45
AMA Charter (Including Insurance Certificate			120	120	120
Equipment Purchase	69		286	670	-
Capital Improvements			2,413		5,000
Charitable Contributions			100		-
Postage			110		
Other	4	20	243	390	-
Total Expense	1,151	409	12,658	8,292	20,384
CASH RECONCILIATION					
Beginning Cash Checking	2,692	32,694	23,312	27,484	23,312
Beginning Cash PayPal	2,370				
Undeposited Cash	595				
Beginning Cash Savings	37,001	-	10,000		10,000
Total Beginning Cash	42,658	32,694	33,312	27,484	33,312
Cash received	1,872	610	22,725	13,703	33,190
Cash Disbursed	(1,151)	(409)	(12,658)	(8,292)	(20,384)
Net Cash In (Out)	721	201	10,067	5,411	12,806
Ending Cash Checking	2,972	32,895	2,972	32,895	36,118
Ending Cash Paypal	406		406		
Ending Cash Savings	40,001	-	40,001		12,800
Total Cash	43,379	32,895	43,379	32,895	48,918
Operating Cash	30,579	32,895	30,579	32,895	36,118
Field Relocation Reserve	12,800	-	12,800	-	12,800
Total Cash	43,379	32,895	43,379	32,895	48,918
Field Improvements Authorized, not yet paid			2,000		

AMOS 2021 Event Schedule:

Jet Rally: (David Long) - September 9,10 and 11th

Buddy Box training on Turbine Jets – Thursday the 9th

Thunder in the Valley
Jet Rally

Thunder in the Valley
JET RALLY 2021
A Benefit for Wounded Warriors
Sept. 9-10-11

A Benefit for
WOUNDED WARRIOR PROJECT

An Event for
RC Pilots

PRODUCED BY MODELERS
AMOS
OF SACRAMENTO, INC.

lots more info online!
www.amosrc.com/events

AMOSRC.com Amos Field 4015 E Catlett Rd Lincoln, CA 95648

Why Attend Thunder in the Valley Jet Rally? A Benefit for Wounded Warriors

Over 25 Good Reasons:

- This will be the premier RC Jet event in NorCal- don't be sorry you missed it. This is more than just a "fly in"- it will be an EVENT!
- We have a 375' long runway with 100' plus groomed runouts on each end
- We have over 100 acres of emergency landing area, just in case- no rock, trees, shrubs or obstacles
- We expect 50 pilots and over 100 planes from the Central Valley, Bay Area, Nevada and SoCal
- There are Ten high quality aerobically awards up for grabs and plenty of crowd participation for the People's Choice award.
- On Saturday all non spectators will vote for the People's Choice Award so bring your best jets
- After the People's Choice voting we will have a smoker 3D show, hawk exhibition and extreme jets (for spectators benefit)
- We welcome RC jets of all kinds- from large turbine powered monsters to small foam EDF's
- We will have a professional announcer and killer sound system that covers the entire pits and spectator's areas
- We are promoting through local media, email and local TV stations so there will be TONS of spectators
- We offer 10x20' and 10x23' Shade tent rentals. Please see the AMOS web site for details (AMOSRC.com)
- We have some EZ Up space available close to the pits, "first come-first serve." Please see the AMOS web site for details (AMOSRC.com)
- With fly-over space of over 125 acres there is plenty of room to fly
- Easy RV access (in and out) and lots of space for free overnight parking- starting Monday, September 6th
- Three Professional Photographers will be on-site for both static and "action flybys". We will hand out 8"x10" glossy's of our best planes/pilots
- We will offer a "Concierge Service" to fetch whatever you need off-site during the event. Just place your request at the Registration Desk
- We will have a "bad ass" fireworks demonstration Friday night (after night flying). Don't miss this!
- We will have a slides show of event activities after Dinner along with the Awards presentation on Saturday night
- We will be selling high quality Polo Shirts (with the Thunder in the Valley Logo) in addition to Event T-Shirts
- Smarter images will be selling RC Apparel and can customize your garments during the event
- We are preparing for warm weather with over 5000 sq. ft. of shade, 4 large Evap-Coolers and Electrical outlets throughout the pits.
- We will have an Air-Conditioned Awards/Dining tent open 2/24
- We will have high quality "on-site" prepared meals and catered Dinner on Saturday night
- We have a renovated food concession stand (The Cantina) where you will find BBQ-TB-Sup, Chicken Skewers, Burgers and a lot more.
- We will provide Free Coffee and Doughnuts Thursday, Friday and Saturday morning
- We will have an Ice Cream Bar and Beverage Stand
- On Thursday we will offer "buddy box" flying for AMA members that would like to safely fly a turbine powered jet!
- There are several high quality and inexpensive hotels within 3 miles of the field
- We will have hand washing stations, hand sanitizer and all the stuff to stay safe.
- Spectators: FREE
- Parking: FREE
- RV Overnight Parking: FREE

Questions?
Contact: Dave Long 916-801-7764
Visit the Facebook Event page at AMOSRC
Visit our web site at www.amosrc.com

JET RALLY 2021

Thunder in the Valley

AMOS Flying Field: 4015 E Catlett Rd Lincoln, CA
at the corner of E. Catlett Rd & Fiddyment Road,
two miles West of Thunder Valley Casino

Registration: Visit AMOSRC.com to Register Online or to print the Registration Form

Helicopters: September 25
(Basil Y, Geordan W)

Profile Event October 2nd (Randy Allen)

Giant Scale Event -

Saturday & Sunday
October the 16th and 17th 2021

At the AMOS-field Located at
4015 East Catlett RD, Roseville, CA

One Mile from the Thunder Valley Casino
Great Event Lodging

Any Giant Scale 79" and above wingspan
3D Model Airplane can Fly

Free overnight RV parking

Pilots can arrive on Friday 15th to Practice
Flying at the field.

\$10 Landing Fee Saturday - Sunday no charge
AMA insurance is Required

BBQ available for purchase!

The AMOS Field is a Gold Member AMA field
One of the Best in California

Hosts Dave Sullivan and
Gary Meyer 916-276- 6990 See: www.amosrc.com

Rotors Over Roseville 2021
Model R/C Helicopter Event
Saturday September 25th 2021
starts at
9:00AM

Location: AMOS Flying Field 4015 E Catlett Rd,
Lincoln, CA 95648

On The Corner of E Catlett and Fiddyment Roads
One Mile East from the Thunder Valley Casino in Lincoln CA

Flying fee \$10 BBQ available for purchase!

3D Stunt and FC3 Scale flying styles
3 flying areas within the field

Free Overnight R/V parking, Pilots can arrive on
Friday September 24th to practice

Contact: Basil 916-410-2791 or Geordan White
916-521-8590

See: www.amosrc.com for more information

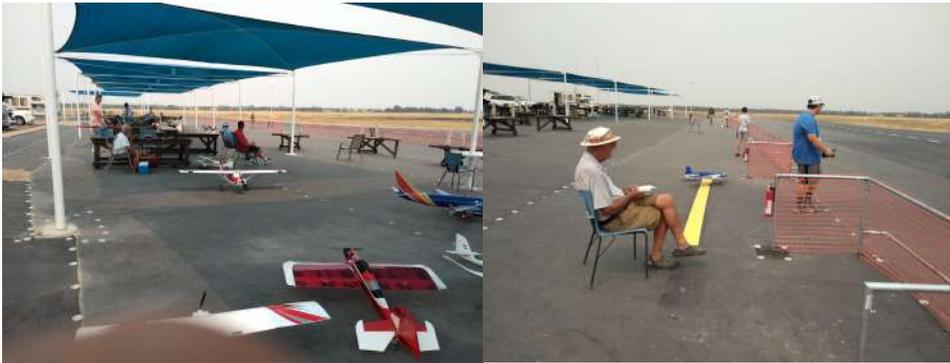
Giant Scale Gary Meyers, Dave S.

AMOS Event News



Electric Fun Fly: August 7

This was a small gathering of AMOS electric guys having a fun day along with a good BBQ. Looked like everyone enjoyed the day. The Limbo contest was especially fun to watch. Weather was a little smokey which probably kept attendance down but still a nice turnout. Profit from the BBQ paid for the food for the next weeks Presidents fun fly where the food was free for members.



Presidents Fun Fly , - August 14

This was another low key event that had around 20 AMOS members flying everything from small foam planes to giant scale gassers. The BBQ was free and very good. Again the smokey weather was sticking around but didn't effect anyone.





Large propeller Balancing using chairs

Can't fit a large propeller into the popular Top Flight magnetic balancer.

Using the shaft setup from the Top Flight kit
use two similar height chairs back to back and balance away!!



Timing your R/C Gasoline Engine the Easy Way

Having problems with a R/C Gas engine and need to check the timing!

Adjusting the timing on your R/C Gasoline engine equipped with a Hall Sensor – Like a DLE is easier than you think. You can easily set the timing and all you need is a set of calipers and a calculator.

A UN-sharpened pencil or a Zip tie will help when checking engine for Top Dead Center.

This system sets the ignition at 28 degrees. There is no advantage to setting the ignition more than 28 degrees on any gasser engine all this will do is make the engine run hotter increasing the need to cut more into your cowl to let more airflow cool it.

This system is an alternative to the timing wheel which isn't very accurate or available.

1) Remove the spark plug and put the engine into Top Dead Center. There's some play at TDC so you'll have to get in the center of the play for an exact TDC. You can use a unsharpened pencil or a large plastic zip tie pushed into the spark plug hole to help find TDC as you turn the engine shaft.

When you find TDC you will usually find the Prop hub magnet positioned around the bottom of the engine to the right of the black sensor, so turn the engine over.

There are also TDC gauges that mount into the spark plug hole if you have one lying around.

You can use a small strip of blue masking tape to keep the hub from turning so you don't lose the TDC position.

All calculations are in Metric - mm and can be rounded off.

2) Take the caliper and measure the diameter of the Hub the Prop Hub Magnet is on.
On the CRRC 50 engine I measured 34mm. **Multiply $34\text{mm} \times .244 = 8.30\text{ mm}$.**

3) Measure from the Center of the Prop Hub Magnet to the closest edge of the Hall Sensor Body, for my Engine this length is 8.30mm as I figured it out in the equation. If the measurement matches, the engines Hall sensor is in the correct position for the engine to fire at 28 Deg before TDC. If not adjust the hall sensor by loosening the two screws on it's mount and move it to the distance you have calculated for your engine. Use Locktite on the screws to keep them from coming loose.



Measure the Hub Diameter
Calculate Distance for 28 deg



Make Sure the Magnet is in the correct position
If not - Adjust the Ignition Pickup

If your measurement doesn't sit exactly in the center of the hub magnet that's okay there's a slight margin for error as the piston will stay at TDC for a small amount of turn of the crankshaft – flat spot.

A few degrees in one direction or the other makes no difference in performance.

Equation - X (Diameter of Your Hub mm) \times .244 = Y
(Distance from magnet center to Hall sensor Edge mm)

.244 comes from the formula $(28 \text{ deg} / 360) \times \text{Pi} (3.14) = .244223$

This method works for most of the popular brand engines like DLE etc. that use a Rcexl type ignition;

early 3W and ALL DA engines don't use a hall sensor, the Ignition Pickup is an inductor so measuring with a caliper doesn't work.

The best way to get the ignition adjusted on those models is let the factory do the timing or by ear.

Adjust the inductor (Large Red Housing) assembly in small amounts then check the change by the sound of the engine. Note Hot or cold running of the engine or RPM's at high throttle and engine vibration to get the adjustment perfect.

On DA engines the motor should run in both extremes of the Inductor adjustment. *You could also use a timing light on DA engines but the shielding on the plug wire would have to be removed.*

Jokes;

Slow Painful Death:

A wife got so mad at her husband she packed his bags and told him to get out.

As he walked to the door she yelled, "I hope you die a long, slow, painful death.

" He turned around and said, "So, you want me to stay?"

AMOS Newsletter prepared by: Basil Yousif, Send Newsletter feedback and topic info to basil.yousif@sbcglobal.net