



AMOS April 2020 Newsletter

AMOS Board Meeting 4/16/2020 @ 5:10 PM – recap

Location: By Telephone Conference Call

President Doug Reid presided.

Introductory Remarks: Doug R observed that golf courses in Placer County are now allowed to reopen and that President Trump has outlined a plan whereby State Governors can begin to reopen their states.

Web-site postings, changes: John S presented the question of who should be authorized to ask Ian to post material or make changes to the web-site.

After discussion it was concluded, in order to avoid confusion and make Ian's work easier, that only the President or the Public Relations Officer should do so. Any other officer or member should route any such requests through the Public Relations Officer.

Ian should be advised that if he receives a request from anyone else he can ignore it or refer it back to the Public Relations Officer. When general meetings resume, this should be adopted as a Bylaw amendment. At the same time, Rule 13 should be amended to reflect the current location of the helicopter flying pits.

Discussion on Use of Field During COVID-19: The Board discussed, but was unable reach a definitive conclusion as to whether use of the flying field is banned by the ORDER OF THE PLACER COUNTY HEALTH OFFICER dated April 10, 2020.

The Board agreed that member safety should be the paramount concern. On Motion by John S, seconded by Andrew W., the Board voted seven to two to keep the field open to members only subject to the following:

The gate shall remain closed at all times. The entrance shall have a sign indicating that the field is closed to visitors and guests. All of the guidelines approved at the previous Board meeting shall remain in effect. The President shall communicate these revised guidelines to all members.

Board Reports:

Acting Treasurer's report for February follows

Date	Description	Memo	Amount
BALANCE 1/31/2020			33,129.83
2/4/2020	David Correll	Material to Relocate Freq.Board & Hand Sanitizer	-13.20
2/4/2020	AMA	2020Charter Renewal and AMA Insurance for ME...	-120.00
2/5/2020	WPWMA	Lease catch up payment	-139.72
<hr/>			
2/10/2020	Deposit	Field Improvement Fees	135.00
		2020 Membership Renewals	610.00
		Sale of donated transmitters	50.00
<hr/>			
2/12/2020	Roseville Ace Hard...	Rodent gassers	-46.49
2/21/2020	Porta Potty		-133.50
2/26/2020	Deposit	William C. Bradford Dues	120.00
<hr/>			
		Late Fee	10.00
2/28/2020	WPWMA	Land rent for March	-617.33
<hr/>			
2/1/2020 - 2/29/2020			-145.24
BALANCE 2/29/2020			32,984.59
			<hr/>
TOTAL INFLOWS			925.00
			<hr/>
TOTAL OUTFLOWS			-1,070.24
			<hr/>

Field Marshall_Dave C. The field is ready for fliers.

Event Coordinator/Public Relations_Karen C: Rotors over Roseville, the Huckfest, and the Float Fly have all received sanctions.

AMOSRC 2020 Events

All Events are Postponed until Quarantines are lifted

Sat. June 20th Warbirds Over Roseville

Contacts: Michael Dunbar 916-402-4571
Tom Aschwanden 916-331-0391



Warbirds Over Roseville 2020
Saturday June 20th

Model Airplane R/C Event
WW1, WW2 and Recent Warbirds
welcome. Jets okay! Starts 9:00am
Location:
AMOS Flying Field at the Corner of E Catlett and Fiddymont Rds
- One Mile East from the Thunder Valley Casino in Lincoln CA
Great Event Lodging

Flying Fee \$10
BBQ will be Available for Purchase

Pilots must have Valid AMA insurance

Free Overnight R/V Parking. Pilots can arrive on Friday June 19th
Hosts: Michael Dunbar 916-402-4571
Email: mj.dunbar@surrewest.net and Tom Aschwanden-flotom@att.net
See: www.amosrc.com for more information

Sat. August 8th Electric Fun Fly

Contacts: Randy Allen 530-346-6590



AMOS Electric Fun Fly - Saturday August 8th 2020

At the AMOS field Located at 4015 East Catlett RD, Lincoln CA,
One Mile East from the Thunder Valley Casino
Any Size Model Electric Airplanes and Helicopters
are welcome - Starts at 9:00 AM and
goes Late with Night Flying with
Electric LED Models.
No Landing Fee but
AMA insurance is Required

Great BBQ Hamburger - \$7 meal -w- Drink and chips
\$10 -Tri-tip meal
Hotdog meal \$6

Contests - Limbo , Combat, and Spot Landing

Host - Randy Allen 530-575-1379
Email ag@allenguitar.com
Also See: www.amosrc.com for more information

Sat. Sept. 11th-Sun. Sept. 17th

Thunder in the Valley Jet Rally

Contacts: Keith Fick 916-439-0707



Rotors Over Roseville 2020
Model R/C Helicopter Event
Saturday September 26th 2020 at 9 :00AM

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

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

Flying fee \$7 and BBQ Hamburger or Hotdog Lunch \$7
Tri-tip sandwich Lunch \$10

Pilots must have Valid AMA insurance
Helicopter and Multi-rotor, Help Desk for Beginners

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

Free Overnight R/V parking. Pilots can arrive on
Friday September 25th

Contact: Basil 916-410-2791 or Geordan White
916-521-8590
See: www.amosrc.com for more information

Sat. Sept 26th-Rotors Over Roseville Helicopter Event

Contacts: Basil Yousif 916-410-2791
Geordan White 916-521-8590

Sat. Oct. 3rd AmoBro Profile Event

Contact: Randy Allen 530-346-6590

Sat. Oct. 17th-Sun. Oct. 18th Nor-Cal Huckfest Giant Scale Event

Contacts: Basil Yousif 916-410-2791
Geordan White 916-521-8590



Nor-Cal Huckfest
Giant Scale Event
Saturday & Sunday
October the 17th
and 18th, 2020

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 75" and above wingspan
3D Model Airplane can Fly
Free overnight RV parking

Pilots can arrive on Friday 16th to Practice
Flying at the field.
\$10 Landing Fee Saturday - Sunday no charge
AMA insurance is Required

Great BBQ - Hamburger or Hotdog \$7 meal Tri-tip \$10

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

Contacts: Basil 916-410-2791
Geordan White 916-521-8590
Gary Meyer 916-276-6990 Web: www.amosrc.com

January 1st 2021 Freeze and Fly Event

Contact: Chance Harris 530-320-1955

Volunteers are needed at these events. If you see an event you may want to help out at, feel free to get a hold of the contacts listed or me (Karen Correll-Contest Coordinator/Public Relations 916-798-3122)

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.

You might also get help from a unsharpened pencil or a Zip tie while checking for Top Dead Center.

This system sets the ignition at 28 degrees. There is no advantage to setting the ignition more than 30 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 Loctite 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) x .244 = Y
(Distance from magnet center to Hall sensor Edge mm)**

.244 comes from the formula (28 deg / 360) x Pi (3.14) = .244223

This method works for most of the popular brand engines like DLE etc. that use a Rcx1 type ignition;

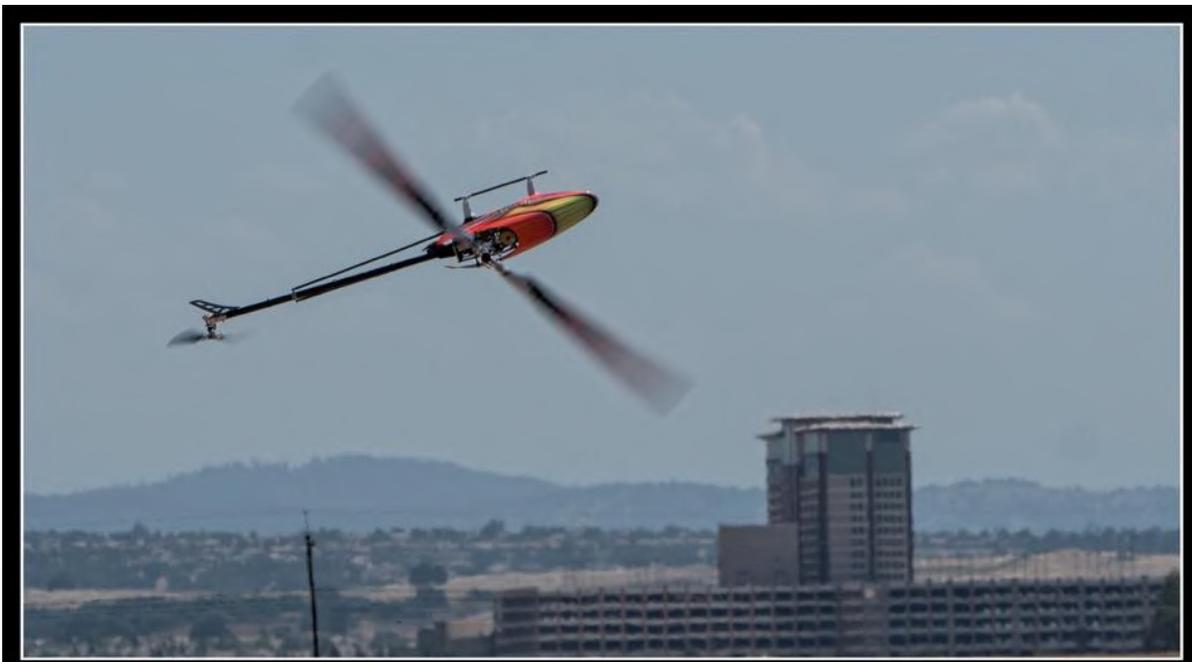
early 3W and ALL DA engines don't use a hall sensor, the Ignition Pickup is an inductor so measuring with a caliper doesn't work.

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.

Great Picture from AMOS's first Helicopter Event;



Jokes:

**What is the difference between a smart blonde and bigfoot?
Bigfoot has been sighted.**

**How do you keep a blonde in the shower all day?
Give her a bottle of shampoo which says "lather, rinse, repeat."**

**Why should blondes not be given coffee breaks?
It takes too long to retrain them.**

The world's smartest man?

A pilot, Michael Jordon, Bill Gates, the Pope, and a pizza delivery man were all in a plane together traveling through stormy conditions.

Suddenly, the pilot came running back to the passengers and announced that lightning had hit the plane, and they were going to crash in a matter of minutes. "There are only enough parachutes for four of the five of us," he announced.

"Since I'm the pilot, I get one!" After saying this, the pilot grabbed a parachute and jumped out of the plane.

"I'm the world's greatest athlete," proclaimed Michael Jordon. "This world needs great athletes, so I must live." Michael Jordon then grabbed a parachute and leaped out of the plane.

"I'm the smartest man in the world," bragged Bill Gates. "The world needs smart men, so I must also live!" Bill Gates grabbed a parachute and jumped out of the plane.

At this point, the Pope began to speak to the Pizza delivery guy. "I have lived a long life compared to you, and you may take the last parachute. I will go down with the plane."

"You don't have to stay here! The world's smartest man jumped out of the plane with my Pizza Delivery Backpack."