

SCALE DIMENSIONS

THE OFFICIAL NEWSLETTER OF THE SCALE SQUADRON OF SOUTHERN CALIFORNIA

AMA CHARTER 1520 - EST 1977

SCALESQUADRON.COM

October 2017



Commander's Corner

By: Mike Greenshields

It's hard to believe it's October. We're going to be talking about nominations, the Christmas party, and the AMA show!

But before all that, we're going to talk FREE FLIGHT! So, after a lot of work, we've decided on an outdoor event. We'll see you Monday night before the meeting for open practice in the park behind the meeting room. I'll be there by 6pm. Then, we'll have the 2017 rubber ff event on Sunday the 15th at OCMA, Festivities begin at 7am. More on that in the Newsletter! And, there's more!

Christmas party. Don't forget, the Christmas party WILL be on the 2nd Monday, meeting night, Dec 11. More details to come, but save the date now! It's gonna be fun!

AMA Show. January 5, 6, and 7, 2018

We already have 2 booths reserved! Let's get ready for the fun! We'll need a warbird, a classic, a FF plane, and more. If you have ideas on how to make the booth awesome, let us know!

Scale Squadron Board 2018. We will discuss nominations at the October meeting. All of your board members have served for some time. It's time to step up and get involved. Please consider being a part of the board for 2018.

Scale events through the end of the year. There's so many it's hard to keep track. But if you have to pick one, we recommend the One Eight Airforce October Fall Fly In. October 22-23, 2017 Phoenix, Arizona See the flyer!

We'll see you at the field! Happy landings! Mike

Inside This Issue

- Commanders Note
- Event Calendar
- Event Flyers
- Tips From the Bench
- About The Scale Squadron

Event Calendar

Scale Squadron Free Flight Event October 15, 2017 Silverado, CA (OCMA Field)

Best In The West Jet Rally Oct 11-15, 2017 Buttonwillow, CA

OEAF FALL FUN FLYOCTOBER 21-22, 2017
SUN VALLEY FLYER'S FIELD, AZ

Corona R/C Club Veterans Day Celebration November 11, 2017 Corona, CA

Squadron Christmas Party December 11, 2017 Fountain Valley, CA



Members In Action



Thought I would send a photo for the newsletter of "the model room" at Ted Cooke's, filled to the gunwales with "da boyz" who invaded from the US! Gordy and Ted are working on a Globe Swift stick and tissue project and Larry is repairing Ted's foamie that happened to be Mode 2 so Larry could fly it! Beautiful view of "the garden" (back yard in British!).

We visited Duxford (Imperial War Museum) yesterday, which was very interesting. In the Battle of Britain hangar there is a Hurricane that Larry said was the closest he has ever been to one. Also a shot down Bf 109, half wing as it was found, the other half wing restored as it would have looked from the factory. I took photos but they are all on the camera...not the iPad....sorry.

Having a great time....wish you were all here!!!

Cyndy, Larry, Gordy, and Ted

2017 Warbirds and Classics Sponsors

E-Flight

John Wayne Licensing

Wings West (they sponsored the pilot numbers! THANKS!)

and several club members and guests including:

Mike Greenshields

Sam Wright

Gary Glasband, DDS Gentle Dentistry (562)425-5511

Scott Whyte (he may need some new planes, we think he donated most of his garage!)

Paul Timpano - San Gabriel Valley Flyers Pano Coromelas - P.A. System for our events.







ALL TYPES OF SCALE MODELS WELCOME

COMMANDER RICK MARSHALL 602-300-7781 rjmarsha@cox.net

CONTEST DIRECTOR DAVE ZARRA 623-206-2040 dave..zarra@yahoo.net

FEATURING:

-SATURDAY NIGHT TEXAS BBQ AT THE FIELD -OEAF'S UNIQUE AWARDS IN MANY CATEGORIES

> REGISTRATION STARTS SATURDAY AT 7:30am \$25 PER PILOT - AMA CARD REQUIRED

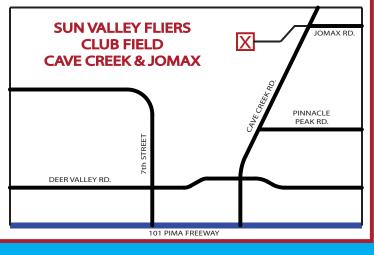
- -SPECTATORS WELCOME
- -FREE PARKING
- -LUNCH AVAILABLE

RC FLIGHTDECK REGISTRATION IS NOW OPEN WWW.RCFLIGHTDECK.COM

> **400ft CEILING** 100db LIMIT NO 3d FLYING AMA SANCTIONED



TABLE RESERVATIONS AVAILABLE RUNWAY UNRESERVED TABLES RESERVED TABLES OEAF 5 6 7 8 KITCHEN RESERVED TABLE **OPEN PARKING** PARKING PILOT'S TENT



CALE SQUADE OF SOUTHIERN CAMEORNIA SILVERADO, CA OCTOBER 15, 2017 **JUDGING CATEGORIES:** VISIT FLYOCMA.COM FOR • BEST SCALE FLIGHT DIRECTIONS TO THE FIELD. • BEST NON-SCALE FLIGHT **FOLLOWING THE CONTEST** PRACTICE STARTS AT SUNRISE. EVERYONE FLIES EVENT CONTEST STARTS BETWEEN 7-8AM

EVERYONE FLIES CATEGORY

Didn't have time to build?? That's OK! We're handing out a one-design Guillow's, no cheating, you won't know which model until you arrive! - You'll have less than one hour to assembly and fly. All the mods you can complete in that time frame but it must use ALL of the stock parts, and only the parts it came with. Glue, sandpaper, knife, and rubber lube for assembly is OK.







Tips From The Bench

right adjustments, which means that the upset you. power circle as well as the glide is in the clockwise direction. This is the easiest glides to put in some turn. Bend the rud- safely push the combination of more rudmethod. Almost invariably, both right der tab to the right to produce a notice- der and more tail-heavy trim. rudder and right thrust are required. Oth- able and steady turn. This tum may be difficult in rubber due to ever-changing spiral dive. thrust and torque, as well as the changthrust, to adjust the power.

glides, try to find a slope or some high The ship should almost fly off your starting point from which the ship can be hand as you move your arm forward. your liking, step -up the winder turns, sure rigging, you can wind it up any time launched. First make a few hand glides Power stalls are corrected by adding steadily adding down thrust and offset over level ground. It is the old story of down thrust in the form of hardwood thrust as required to prevent power stalls close attention to these features: correcting tail heaviness (the nose rises shims behind the top of the nose block and to make the ship stay in the right turn Nose block. If one piece of wood, set to abruptly) by any, or any combination of where it rests against the fuselage. Book under power Now, again, this is where grain fore and aft, never up and down. the following measures: move the wing match covers or the matches themselves the expert does not stop. back, remove incidence from the wing may be used temporarily if they are re-(decreasing its angular setting relative to placed with glued-on permanent shims Get critical. Make believe it belongs to a having its grain at 90 degrees to the next the thrust line), add incidence to the sta- before the next flying session. Although friend and is a model that climbs, hangs lamination. The block must 'fit snugly to bilizer (raising its leading edge). However, you have the plane gliding slightly to and loses time without really getting up. prevent rocking back and forth, or even always try to keep a few more degrees of the right, right thrust undoubtedly will Maybe it will take more right thrust. (The revolving under vibration. The key, that incidence in the wing than in the tail. This be needed to make a right turn with the measure of that is the very first turn after portion fitting within the nose of the fumay be in any combination, such as zero prop running. Shims will be added be- take-off; if it rolls nose high you can add selage, should be thick, of hardwood or degrees for the wing and minus two de- hind the left side of the nose block to pro- right thrust if necessary, but if it flies on plywood. The shoulders of a balsa key grees for the tail, of plus two in the wing duce right thrust and zero in the tail, and so on.

motor to bring the C.G. forward, or alter thrust would cause it to fly cleanly. the wing position.

inserting a shim under the trailing edge turns by, say, five winder turns a flight (20 again, just so you won t pile in. of the stab). The proper hand glide will be rubber turns by a 4-1 winder), the immeon the wheels.

If from the glide the ship the ground about 40-50 feet away.

Having made short hand without a dive. glides, try longer hand glides from some elevation. This will give a truer picture of veteran doesn't take no for an answer. as you use power, without having an the rear edge of the stabilizer. If the glide At high speed, which means high power, front.

ing slipstream from a big fan of a prop. cleared area, preferably over tall grass, the next flying session, begin with the pulled down with that same down thrust. The general idea is to adjust the glide, as early power flights may dive in af- number of winder turns that get enough Right thrust works the same way Thus, then, by means of offset and/or down ter a stall. Begin with 50 turns-if pos- altitude for a glide, then adjust the windy half-power flights do not reveal what a sible work with the winder from the weather stall out of the plane by making rubber job will do fully wound. Soon-When you begin your test beginning-and hand launch gently. it nose heavy as required.)

While you have to kill off se-very slight climb, look out!). Though some excellent mod- vere stalling tendencies under power Too much positive angle in the tail may or even may dive. So, if your model is go-more latitude for thrust adjustment. produce stabilizer stalls, or an abrupt ing fairly straight at this stage, permit it

ics, to really see the glide.

For example, if, say, 60 turns of and 1/16" asks for it. swoops in for a pretty landing, the plane your winder get the ship high enough for harder launch; if it stalls, launch it more as desired. Is it slow and stally, or fast, flight .at nearly full power increases ef- tilting the stabilizer ed up, as stalls always result. Put the winder turns on succeeding flights until, ral in. nose down slightly and aim at a spot on by means of your rudder trim tab, you

Take advantage of long hand of turns until you learn how far you can uses the more down thrust it requires

its side, racing around the first turn with wear away. Balsa provides a poor foun-

This is tied in with design. Wing mounting. Key the wing so that els are flown with zero-zero, for wing and with down thrust, keep in mind that a Ships with low areas toward the rear, it goes on at right angles to the fuselage tail, the angular difference opposes the plane which stalls in straight flight may down swept fuselages, sub-rudders, etc., every time. A panel forward of the oppodevelopment of a stall (since the tail con- fly properly when in a turn (its lift is de- and with high areas forward, tend to roll site panel will turn the machine. A slightly tinues to work as the wing lift fades out). voted less and less to support in a turn), nose up on that first turn and give you low tip will do the same thing. (The plane

stall of the ship. Thus, if the ship remains to tend to stall without actually letting it Maybe your clocked time is nothing to /2" dowel, half rounded and cemented badly tail heavy, and its wing position is stall. In other words, it should be permit-rave about Most of your duration comes to the bottom of the wing at the center, fixed, or nearly so, save yourself time and ted to fly rather nose high, or mush, when in the glide. After getting as high as pos- is one key that does not restrict the wing make structural alterations. Shorten the you can see that a shade more down- sible, it all depends on the ship and how coming off in a crack-up. The dowel rests While the theory is to adjust isn't dangerously tight, you can add the leading edge and another at the trail-If the ship seems nose heavy, glide, then the power, it is not possible slight right rudder to take out that mush ing edge. Replace temporary shims with the opposite corrections are required: to do so and reach final results without in the glide or, if the glide turn is already a balsa sheet filling under the wing, holdmove the wing forward, add incidence pausing to make slight improvements or tight, trim the model a shade more nose ing it at the same angle. Place the sheet to the wing, remove incidence from the readjustments. in the glide. Thus, while heavy. After such changes make half edgewise on the top tongerons. stabilizer (which may have to be done by working with power, gradually increasing power flights, then step up winder turns Stabilizer. A pop-up tail provides some

a straight line, from the time the model diate objective is simply- to make power much offset thrust? That varies, ship to stab through a slot or even cementing it leaves the hand until it touches down. It behave well enough to allow you to get ship. As a rule, a 1 /16" thick shim for in place. Provide for a mounting that nevshould glide slightly nose down and land the ship high enough, without aerobat-right thrust is plenty, 3/32" is an extreme. er tilts the stab one way or the other; this For down thrust, 1/32" usually is enough, is the same as applying rudder.

This is one point where the tribute thickness.

By: August 1952 Air Trails

Most rubber models are flown with right- out-of-adjustment glide hanging over to is a trifle slow he will add rudder! Make down thrust al ways takes more effect. enough flights with the same number This is why the less power your plane

This startling fact is true. What happens is that as a low-powered ship The ship may stall and spin edges toward a power stall, it lacks the er systems, popular in free flight, such as increased later when testing under pow- to the right. when pushed too far. It is a thrust to pull itself up in the climb. Thus, left power and right glide, are far more er. It should not be sufficient to cause a good idea to back off slightly from the added down thrust is required to keep its slowest gliding turn you can obtain, be- nose from reaching that danger point But Fly the ship in a large cause any wind will cause a stall. (If windy pour on the power and the nose will be er or later you must pack in the turns When, finally, the glide is to to find out. After that, if the model has For consistent results give

> Experts laminate their nose blocks from Say your ship is "adjusted." sheet (like 1/8") with each lamination dation for a tensioner screw.

will always bank in the direction of the Does the glide drag its feet? high side of stabilizer.) A short piece of 1 you adjusted it. If that first power turn lengthwise in a slot. Use a short piece at

degree of keyed mounting. If possible, How much down and how provide permanent rigging by sliding the

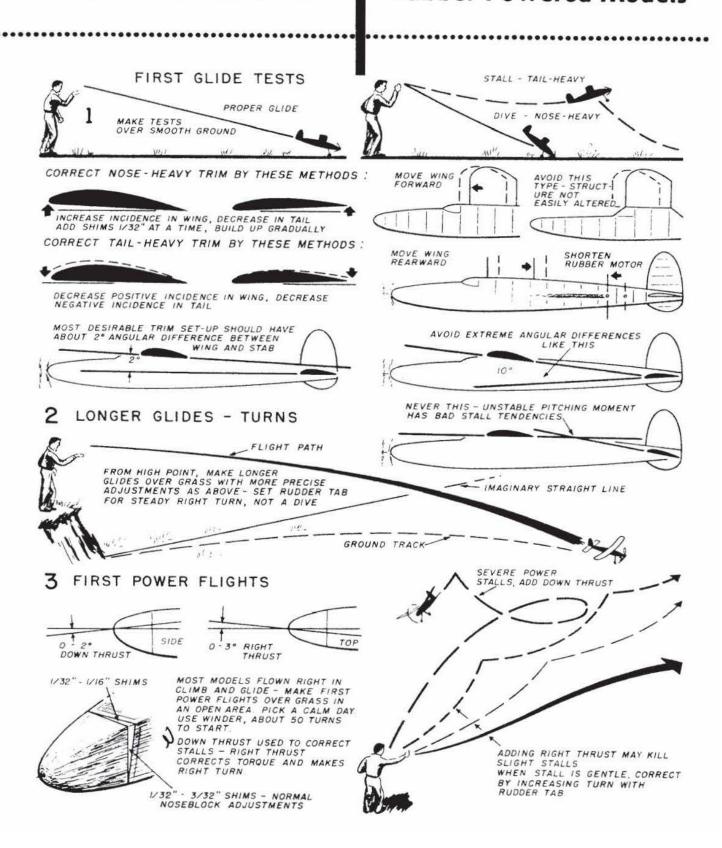
Rudder. If possible, build in the fin and If possible, make thrust cor- rudder to prevent any accidental moveis tail heavy. However, be sure that you it to steady out and glide uninfluenced by rections 1/32" at a time Many experts ment. If a trim tab is used, make it of are not causing stalls by heaving the ship the after-effects of power (as a slight stall make changes 1/64" at a time using brass metal, cemented well in place so that too strongly or causing dives by launch- when the prop stopped), note whether shims. The danger in bold thrust adjust- any alterations are firm and unchanging. ing it too weakly. If it dives, try a slightly the model glides straight or in a circle ments with few winder turns is that a However, turn may be adjusted as well by

gently. Never launch with the nose point- tending to dive? Use the same number of fects of all adjustments and you may spi- For really tight turns without spins, it will be necessary to warp the right wing Be patient and methodical. tip, which is the tip on the inside of the have obtained the tightest possible circle Cement in the shims when done, but al-turn. The leading edge is raised slightly low for the fact that the cement will con- (about 1/16") by loosening the covering toward the tip by holding the panel over How can you tell when you a jet of steam, then twisting it slightly in the glide and will save you much confu- If his model begins to dive as more and have too much down thrust? Easy The the hands 'and holding until dry. Hold sion when you begin to use power. If long more rudder is applied, he will begin to early part of the flight, the first turn, or the wing in front of you so that it is conhand glides are made you can feel free treat the ship for nose heaviness, either even two or three turns may be racy with- venient to sight along the trailing edge. to make thrust line adjustments as soon adding incidence to the wing or raising out the ship picking up decent altitude. Sight chord-wise, looking toward the

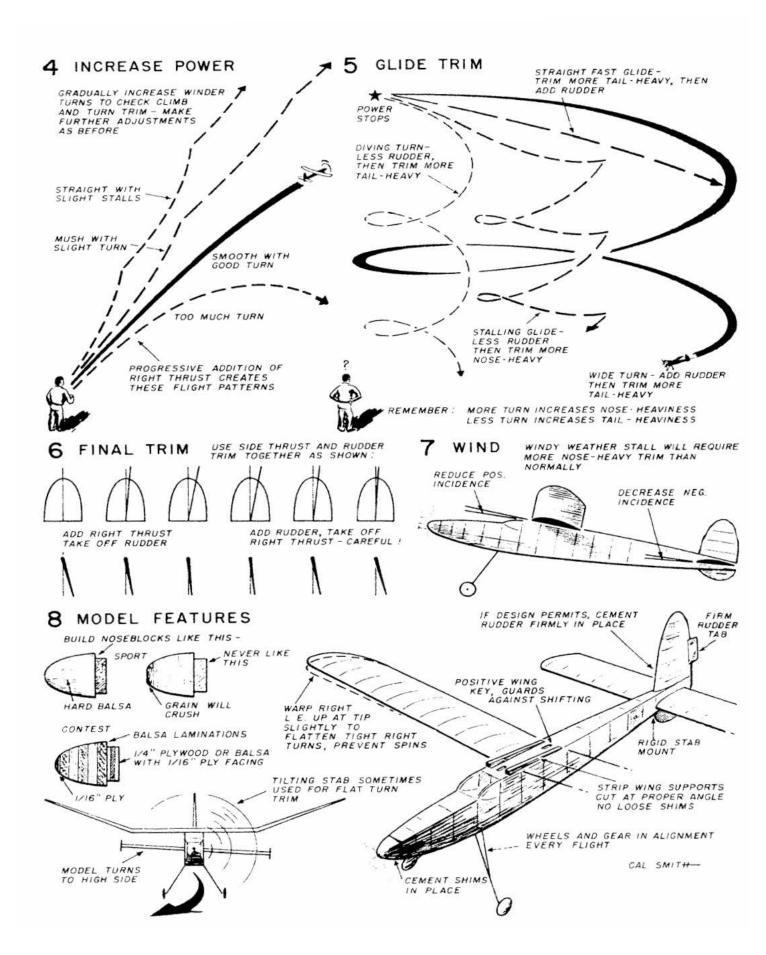
Tips From The Bench

AIR-MODEL MANUAL

The Adjustment of Rubber Powered Models



Tips From The Bench



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ABOUT THE SCALE SQUADRON

Scale Modeling is the accurate recreation of aircraft in aviation, from the early biplanes to the latest jets of the 21st century. Whether it's built from scratch, a kit or an ARF, scale modeling strives to recreate the airplane as historically accurate as possible. Paint schemes, rivets, windshield glass, and even pilots are faithfully painted and built to exacting specifications. The end result is a flying recreation of the original full size airplane.

Our members all have one common goal - to share their knowledge of aviation, aviation history, and scale modeling.

Our monthly meetings are open to everyone, and often feature "how to" seminars on building and flying model aircraft.

Each year the Scale Squadron hosts and participates in numerous events, with the overall goal of bringing

together modeling enthusiasts from all over the world. Events our members historically and perpetually attend are:

Top Gun
U.S. Scale Masters
Warbirds Over The Rockies
Arizona Electric Festival
Best In The West Jet Rally
One Eighth Air Force Fly-in
Battle of the Builders

The Scale Squadron also hosts their own annual event known as The Scale Squadron Warbirds and Classics. This year will be the 8th year running of the Squadron event.

The Scale Squadron dates back to the early ?O's. Harris Lee, Bert Baker and Bob Olson were the original founders of the Scale Squadron and Members of the Orange Coast RIC Club. Their interest in scale modeling brought them together

regularly at Lee's home. The word soon got out and their numbers quickly grew to over 25.

Scale modeling became the hottest new interest within the R/C community. The first official scale modeling club was formed in 1973 with events held at Mile Square Park. Scale modeling was in it's infancy yet immensely popular as attested to by the large participation at each of their events.

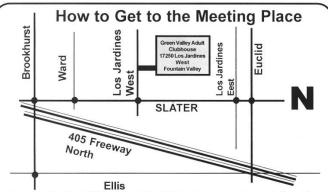
Harris Lee devised a plan for sanctioning a series of local qualifiers around the country and then having a fly-off to determine the national champion. Out of this idea the U.S. Scale Masters was started and is the premier scale competition in the country today. Pat Potaga, of Scale R/C. Modeler Magazine, helped to put this program on the map. His articles and front-page color photos helped fuel the fire of scale modeling.

The modeling world owes these visionaries a debt of gratitude. Thank you Bert Baker, Bob Olson, Jerry Ortega with special thanks to Harris Lee.

MONDAY Oct 9, 2017 7:00 PM

Show & Tell is for our members to show their scale aircraft project in any stage from plans, or framed up to a completed model. Scale ARFs or full bore scale models are welcome.

Visitors are always welcome.



From the South - 405 North, Exit Euclid, Turn Left at end of ramp, Left on Lite at Slater, Pass Los Jardines East, Turn Right at light on West Los Jardines. Go thru Stop sign with school on left. The Clubhouse will be 1/2 block on your right

From the North - 405 South, Exit Brookhurst North, Turn Right at ramp light to Slater, turn right, Pass Silky Sullivan's on your left, FV Police Station on your right, Pass Ward, Left on West Los Jardines at the light, the Go thru Stop sign with school on your left. Clubhouse will 1/2 block be on your right.