Cloudbuster membership and subscription to the newsletter is \$16.00 per year (\$6.00 membership without subscription). All memberships expire on Dec. 31. Subscription membership includes all Newsletter issues for the year.

Send subscription money to: John Jackson Cloudbuster's MAC 5228 Lorin Shelby Twp. 48316

Address all regular correspondence to: Davis Gloff 76 Amherst Pleasant Ridge, MI 48069

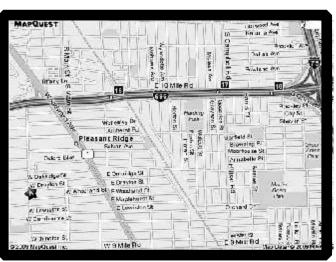
Club Officers

President: Mike Welshans, (mbwelshans@aol.com) 248-545-7601 V.P.: Winn Moore (winn_moore@yahoo.com) 248-830-6294 Secretary: Davis Gloff (davisgloff@hotmail.com) 248-399-3935 Treasurer: John Jackson, (johnjackson2475@gmail.com) 586-604-3257 Safety Officer: Bruce Thoms

Newsletter Editor: Chris A. Boehm, (merlin236@comcast.net) 810 348-8675 5586 Chatham Lane Grand Blanc MI 48439

Club Website by Davis Gloff, (davis.gloff@gmail.com) Cloudbustermac.tripod.com

Cloudbusters Model Airplane Club 976 Pearson St Ferndale MI 48220



The Cloudbusters meet at 8pm. on the third Tuesday of the month at Drayton Ave. Presbyterian Church 2441 Pinecrest Avenue Ferndale, MI 48220 The meeting room is #309 No meetings in June, July, or August.



Be sure to visit our web page to get the winter 2014 handout. If you do not have access to the web or a printer, contact a member who does and get your copies for handout today.



Presidents Notes

IMPORTANT – IMPORTANT – IMPORTANT !

Somehow the draft for the Indoor Fling flier got into the Jan/F Newsletter. Those dates are not correct. The correct date is Sat, May 16. Mike

Ramblings from the editor:

Mike's article above was really long wasn't it. Yes, there was a ma error and we all missed it, but I am the editor, so sorry. See the proper de this issue. Any complaints, next issue will be written by the complainer.

I promised you more Jet Cats, here is another one. The F-14 Tomc however, again you are on your own with the instructions. I can not re them. Who will be the first to build it with wings that fold to delta f takeoff then, unfold for glide? Also we have been trying to include more peanuts at the events, The PEANUT PIPER PA-28-180 By Tony Ro looks to me to be a really nice subject. I have included a small 3-view at a little documentation, but a quick search of the internet will reveal tons color schemes. If you need more or do not have the internet, contact r and I will supply you with some. I have some with lots of color, and sor with very little color, depending on what you would like.

Mike's article did include the Broome Park Schedule for this summ Please mark your calenders, not only with the Broome park schedule, b also for the correct date of the Spring Fling. We will soon be publish the entry form for the,

2015 Flying Aces Club **Outdoor Championships**

A.M.A. Flying Site - Muncie Indiana Sept 17 & 18 8:30 AM to 4:30 PM



For tips this issue, I searched back to the old smallflyingarts web page. It is now defunct. However, like everything that was on the internet, it is still there, you just have to look a little harder for it, Roman, from Switzerland use to publish a lot of neat stuff to smallflyingarts. Included please find a thread that he posted back in 2011 about laminating props. It sure looks easier than carving one. Remember, the lighter the prop, the lest torque effect you have on the plane. If you doubt me, just picture a 10 pound prop on an 8 gram airplane. The plane will spin, while the prop stays still. I know, simple, but that is the way I see things.

If you have an idea, joke, plan, technique, suggestion, that you would like included here, send it to me. I may be able to get it in.

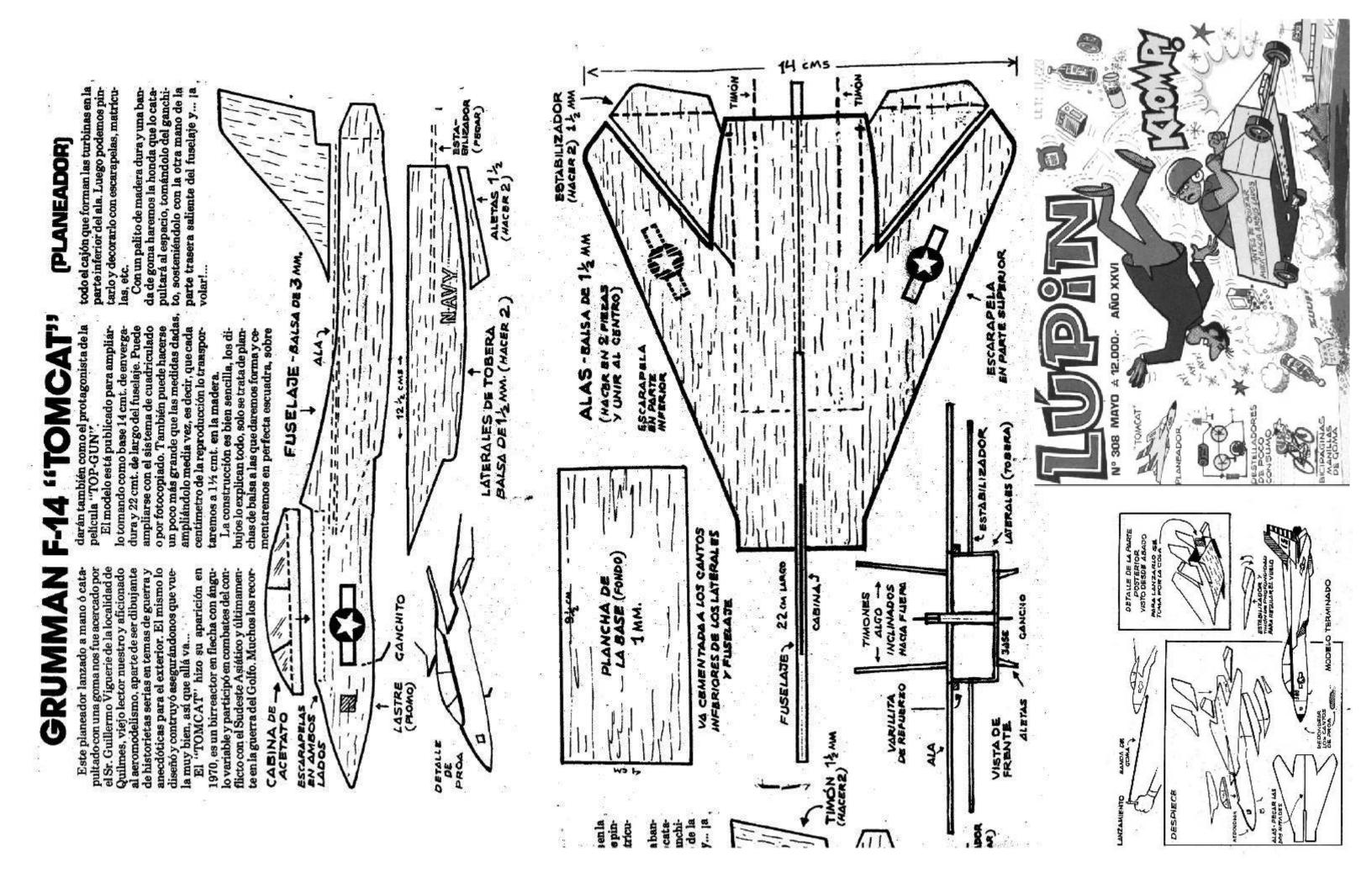
See you at the field! Chris Editor <u>merlin236@comcast.net</u> 810-348-8675

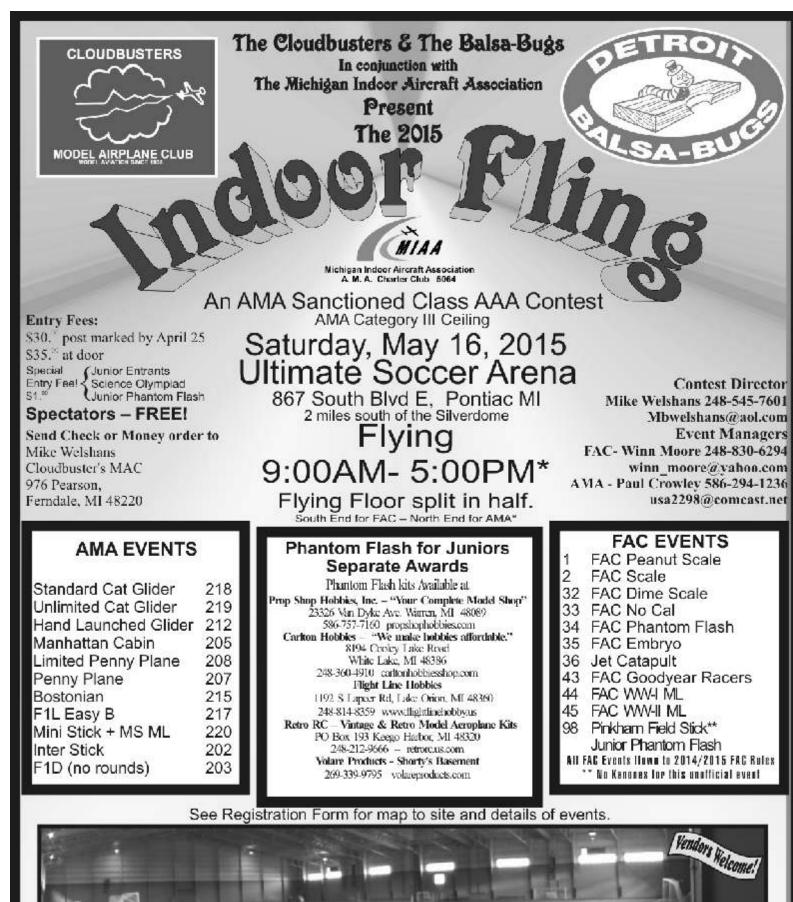
Mar-April 2015

Broome Park 2015 Schedule and Information

		circuite and m	
Stanley officia IMPOI minim arrive to com	y Broome F I flying at 9: RTANT - Th um of 30 m in the startir the set up h pensate for	Park during the summ 30AM and will run the ne designated CD show inutes prior to the star ag time frame gives the ocation. CD has the ri- the weather. All offic	procedures that will be flown at ther of 2015. All dates will start rough 4:00 PM. ald be at the field or flying site a t of scheduled flying. Failure to e designate alternate the right to ght to change start and end time ial FAC events will be flown to ok. Regarding Pinkham Field
Note the refer to	nat all FAC the new FA	Event #'s following I AC Rulebook on the F.	d on the Cloudbuster Web Page. Event #3 have changed. Please AC web site. All FAC rule book t for your quick referral.
		Dates and	ר חי פ
Sun	Apr 12	Winn Moore	winn moore@yahoo.com
Sat	May 23	Mike Welshans	mbwelshans@aol.com
Sun	Jun 7	George Bredehoft	volare61@gmail.com
Sun	Jul 5	ontest –	
		Chris Boehm	merlin236@comcast.net &
	A pro rogio	Mike Welshans	<u>mbwelshans@aol.com</u> use of the free food and refreshments
		uired to make sure we do n	
Sun	Aug 2	Winn Moore	winn_moore@yahoo.com
Sun	Sept 20	George Bredehoft	volare61@gmail.com
Sun	Oct 4	Mike Welshans	mbwelshans@aol.com
Sun	Oct 18	Winn Moore	winn_moore@yahoo.com
Sun	Nov 1	George Bredehoft	volare61@gmail.com
		Events – Flown or	n All Dates
Event	# 1 FAC Pe		
Event	# 2 FAC Sc	ale	
		n Age Biplane	
		n Age Monoplane	
	# 32 FAC E		
		lo Cal Scale	DOC Dest 2 of (
		'hantom Flash - Must Embryo – Must ROG	ROG - Best 3 01 0
	# 35 FAC E # 36 FAC J		
			pson Race (* and ** Apply)
		vear/ Formula Race (*	
Event	# 44 WW-Ĭ	Combat (* and ** A	oply)
		I Combat (* and ** A	
Event	# 53 ½ Size	Wakefield - Must R	OG (*** Applies)
		m Field Stick (**** a	
*	All Mass La	unch Events Minimum	2 Rounds per FAC Rule Book

- ** Must Comply to FAC Pilots Pre Launch Check List
- *** ^{1/2} Wake, because of field size and due to high performance flight characteristics, will be flown with a 60 second max. If multiple contestants have 3 maxes we will have a fly off with 15 second increases in max time (75 seconds, 90 seconds etc until a winner is declared or someone gives up or loses a model.
 - **** Regarding Pinkham Field Stick Models 1st Place Only is Awarded. 2nd or 3rd place do no apply to Top Gun Trophy.
 - ***** Pinkham Field Rules are available on Cloudbuster Web Page. Must present plan with model





A wonderful site with a 72' center ceiling and 40' at the walls. The Arena is on South Blvd. E. (20 Mile Rd.) just west of Opdyke Rd. on the northwest corner. Food Services on Site. Floor area is equal to a full size soccer field plus! Eight AMA CATEGORY III Records Were Set Here in 20121

2015 INDOOR FLING

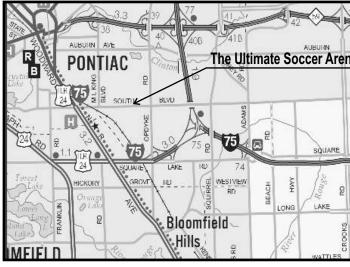
Presented By: Cloudbusters Model Airplane Club of Michigan & The Detroit Balsa-Bugs In conjunction with: The Michigan Indoor Aircraft Association

Official Registration Form

Name			
Address			
City	State	Zip	

AMA # Yes, I would like to be on the Cloudbuster Official Email List Email Address Here Please Print Legibly Make checks payable to: Cloudbusters Model Airplane Club Send by April 25, 2014 to: Mike Welshans **Cloudbuster's MAC** 976 Pearson Ferndale, MI 48220 Saturday, May 16 from 9:00 AM to 5:00 PM When: Where: Ultimate Soccer Arena 867 South Blvd E, Pontiac MI 2 miles south of the Silverdome **CLOUDBUSTERS Event Schedule:** MODEL AIRPLANE CLUB Vendors Welcom 1:00 PM - WW-II, 2:00 PM - Mini-Stick 3:00 PM - Goodvear Racers Michigan Indoor Aircraft Association A. M. A. Charter Club 5064 All AMA Events will be flown to current AMA Rules for Indoor Free Flight. ADRUDN AV http://www.modelaircraft.org/events/compreg.aspx The Ultimate Soccer Arena PONTIAC All FAC Events will be flown to current FAC Rules. http://www.flvingacesclub.com/FACrules3.html Email mbwelshans@aol.com for Pinkham Field Rule Book in PDF Format. Phantom Flash for Beginners flown to current FAC Rules. All decisions of Event Managers Are Final. AKE Bloomfield Please make sure your models qualify Hills to the current rules.

Entry Fees: \$30- post marked by April 25 \$35- at door Special Entry Fee! Junior Entrants Science Olympiad Junior Phantom Flash Contest Director Mike Welshans 248-545-7601 **Event Managers** AMA-Paul Crowley 586-294-1236 FAC-Winn Moore 248-830-6294 8:00 AM Registration 9:00 AM-10:30 AM FAC Scale Events Judging 9:00 AM-5:00 PM Open flying for all events. Mass Launches: 12:00 Noon - WW-I, All official flight times must be turned in by 5:00 PM 5:30 PM - 6:00 PM Awards Presentation MFIFI D



An AMA Sanctioned Class AAA Contest Sanction Number 14-xxx



PEANUT PIPER PA-28-180 By Tony Ross

The Piper PA-28-180 Cherokee is a four place, fixed landing gear landplane, Lycoming O-360-A3A or O-360-A4A engine of 180 hp (134 kW), gross weight 2,400 lb(1,089 kg). First certified on 3 August 1962.It is a all-metal, unpressurized, single-engine, piston-powered airplane with low-mounted wings and tricycle landing gear. It has a single door on the copilot side, entered by stepping on the wing.

Some of my earliest memories are of my dad flying over our house in hisPiper Cherokee as I played in the yard. His commute to his job by car was almost an hour and a half. So on the days with decent weather he would fly to work instead. We lived close enough to the municipal airport, and when he flew over we all knew about how long it would be until his arrival. The fly-over was always a low-altitude high banked turn so there would be no mistake that it was him. It was with these fond memories in mind that I set out on this project.

The basic construction of the model is straight forward flat sides of 1/20" balsa strip built over the plan with formers top and bottom. Stringer notches are cut into the formers and the stringers should sit just proud to give a metal-like skin appearance. The formers are cut from the plan. However, the builder may want to leave some wood in the middle and trim out once the stringers are in place. Scalloping formers is common and if done correctly can reward the builder with a much lighter model. A considerable amount of longeron twist from the wing LE forward is required for the final placement of the nose formers so part N1 is best left off the side construction until after the fuselage is nearly complete. The wing is of one-piece-thru design and can be built over the plan using one strip of 1/16"x1/8" for the TE that can be cracked as the wing panels are lifted to achieve the dihedral indicated. The wing tips are 2 pieces of 1/32"x1/16" laminated around a form using a white glue/watermixture or soft balsa block. The wing is covered with tissue and doped prior to assembly to the fuselage. The one-peice wing design will allow the builder to adjust the wing incidence to suit. The wing incidence shown on the plan is 3° .

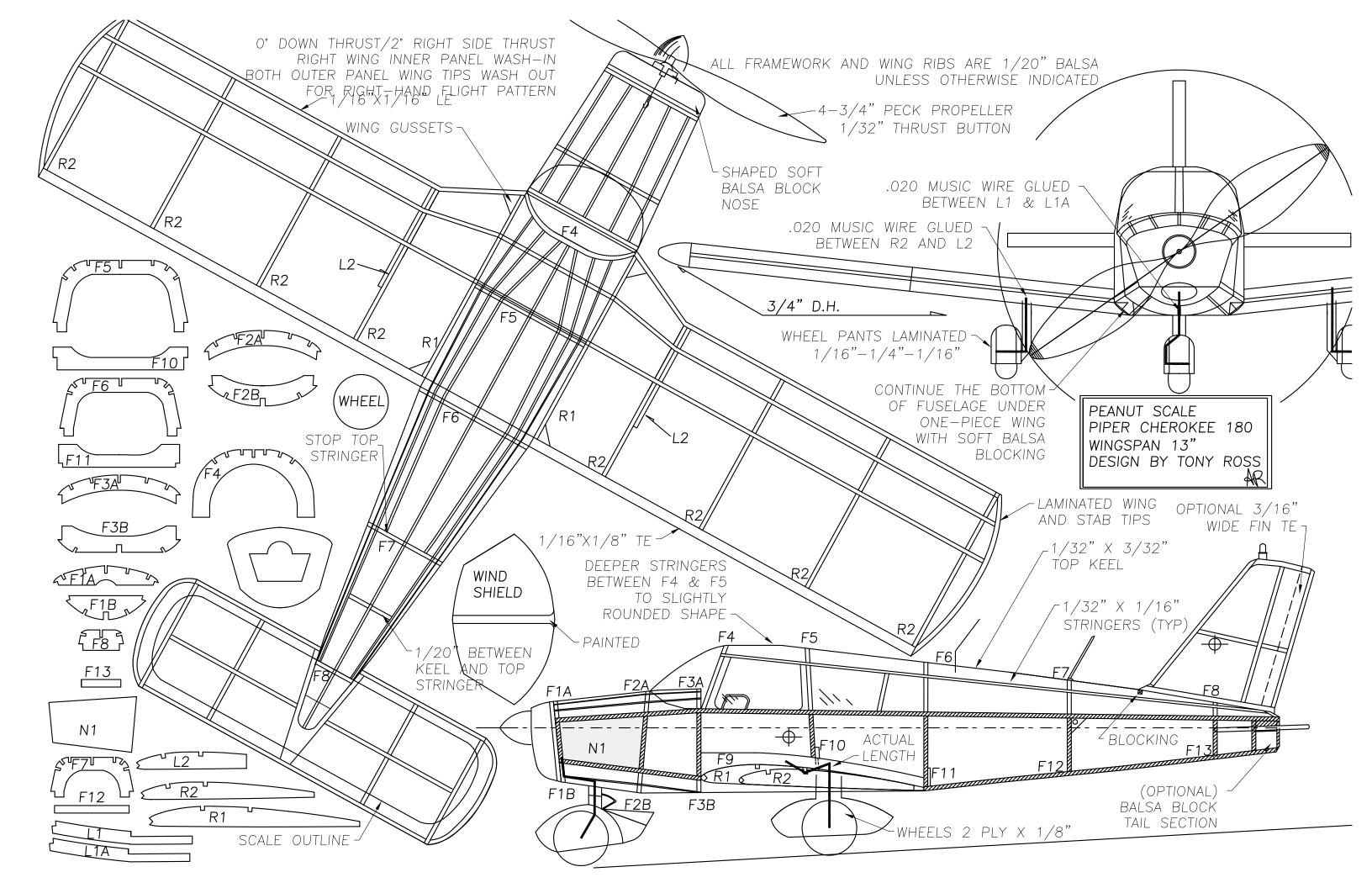
Although the plan indicates the 1/20" balsa strip construction, the test planes were built with 1/16" and 1/32". The 1/16" model resulted in a 14.7 gram completed airframe without rubber motor and the 1/32" came in at 10.4 grams. The1/16" version required more ballast but was easy to fly in most all conditions and trimmed out quickly. This model utilized a single loop of 1/8" tan rubber14" long with 800 turns and a 4-3/4" plastic propeller. The 1/32" model was only able to fly in calm air but did so with some nice duration-like flights. The final set up for that version was a 4-1/2" balsa propeller with 1.4 P/D and a single loop of 0.09 tan rubber wound to the 80% breakpoint. Even though the scale stabilizer was installed on both test models, the larger stabilizer was later utilized to allow the models to fly well at a lower airspeeds. The final CG position ended up at 0.6 inches back from the LE (27%) and with the thrust settings given on the plan turned in a right hand pattern with no rudder adjustments.

Covering the models with tissue was straight forward with the exception of the top of the fuselage. The rounded area over the cockpit needed two strips of tissue to avoid any wrinkles. White Esaki Japanese tissue was used for both models. A light coating of white lacquer paint was applied on the 1/16" version with water-slide decals printed on a inkjet printer. For the 1/32" version, the pattern provided was printed directly onto the tissue.

The front windscreen was cut from the pattern given. It was first masked and painted to simulate the front divider and installed. Then the flat side windows were cut from the plan side view and applied.

I have to agree somewhat with a good friend that there really isn't anything too great about the actual plane. Only that it has been around for over 50 years giving a great number of people the freedom to enjoy the clear blue skies.

P = The problem logged by the pilot. S = The solution logged by the mechanic. P: Left inside main tire almost needs replacement. S: Almost replaced left inside main tire. P: Test flight OK, except auto-land very rough. S: Auto-land not installed on this aircraft. P: No. 2 prop seeping prop fluid. S: No. 2 prop seepage normal. Nos. 1, 3 & 4 prop lack normal seepage. P: Something loose in cockpit. S: Something tightened in cockpit. P: Dead bugs on windshield. S: Live bugs on backorder. P: Autopilot in "alt-hold" mode produces a 200-fpm descent. S: Cannot reproduce problem on ground. P: Evidence of leak on right main landing gear. S: Evidence removed. P: DME volume unbelievably loud. S: DME volume set to more believable level. P: Friction locks cause throttle levers to stick. S: That's what they're there for! P: Transponder inoperative. S: Transponder always inoperative in OFF mode. P: The T/C ball seemed stuck in the middle during my last turn. S: Congrats! You've just made your first coordinated turn. P: Suspected crack in windscreen. S: Suspect you're right. P: Number 3 engine missing.S: Engine found on right wing after brief search. P: Aircraft handles funny. S: Aircraft warned to straighten up, fly right, and be serious. P: Radar hums. S: Reprogrammed radar with words. P: Mouse in cockpit. S: Cat installed. P: Radio switches stick S: Peanut butter no longer served to flight crew P: Screaming sound in cabin at start-up S: Company accountant deplaned P: Funny smell in cockpit S: Pilot told to change cologne P: Brakes howl on application S: Don't step on 'em so hard! P: Radio sounds like a squealing pig S: Removed pig from radio. BBQ behind hangar tomorrow P: First class cabin floor has a squeak S: Co-pilot told not to play with toddler toys in cabin anymore P: Electrical governor is broke S: Paid off governor's debt to Jimmy "The Fish" Galvano P: A/C motor makes a loud squeal like my mother-in-law. S: recommend divorce



Laminating Propeller

Posted on Smallflyingarts.com Mar 13th. 2011 by Rgroener - Switzerland I was asked how I am doing my laminated propellers, so I dowel is thicker than the blades, decided to open this thread. I am not very experienced nor is this I sand or cut it down in the blade

process the "right" one. It's just the way I do it. So feel free to area. comment, criticize or add your ideas to it.

First I sanded a balsa block on which I will laminate my blades. This block is covered with clear adhesive tape to avoid that the laminated blades stick to the block.

Then I cut out four pieces of the desired blade shape. Mostly I use 1/32" balsa for it.

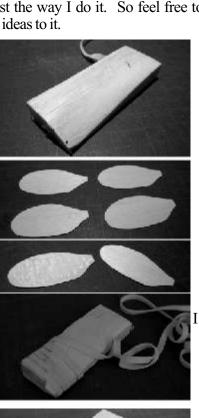
Next step is glueing two of the blades together. Smear the glue with the fingers so that the whole blade area is covered.

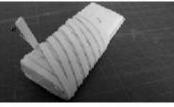
Normally I dont soak the blades in water. The blades are bound to the carved block. use an old rubber for that. This way, I let it dry some hours. The duration depends on the used glue. With my favorite white glue, I have to wait only 2-3 hours. If you soak the blades, you will have to wait over night. The same process is done with the second blade. So in one afternoon, two identical blades are produced.

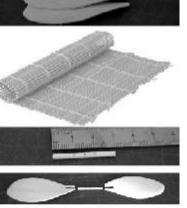
Next is the dowel between the blades. I bought a sushi mat which is made of straight baboo sticks. This stock will last for years

With a drill press, I drill the center hole. Its important to get a really snug fit to the prop shaft. Normally I use a scrap piece of a prop shaft to get the right size. Now I cut a slot for this center dowel in the laminated blades. To glue the blades to the dowel, I use two component glue. I adjust the plades normally by eye. Better would be to use a jig you look from the side, both blade tips should have the same pitch.

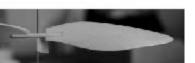
front view ...











If the glue is dry enough, I dope the propeller with sanding sealer and sand the blades smooth. Since the bamboo

Next step is covering of the blades. I cover both sides and dope the covered prop two to tree times.

If you haven't flattened down the dowel in the blade area, it's harder to avoid any wrinkles in the root area of the prop during the covering process.

If all the blades are covered and doped, its time to drill an additional hole in to the center dowel. This time the hole is not vertical.

I inserted a shaft in this newly drilled hole to show the direction of it.

From a scrap shaft I bend and cut a small piece...

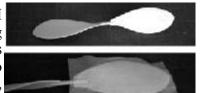
This piece is also glued with a two component glue in to the dowel. It will act as a free wheeling ramp.

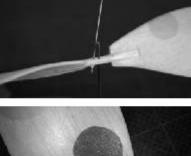
And that is all. If you need some extra strength, you can cover your blades with a glass mat.

All the props on this last picture are made from the same basic block. Shape and size are variable to your needs.....

Best regards Roman

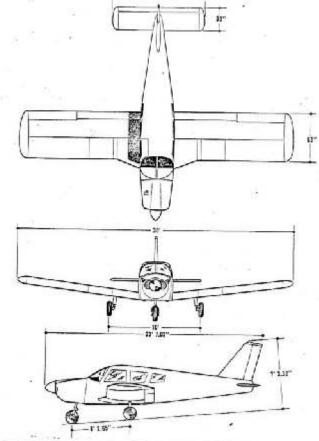


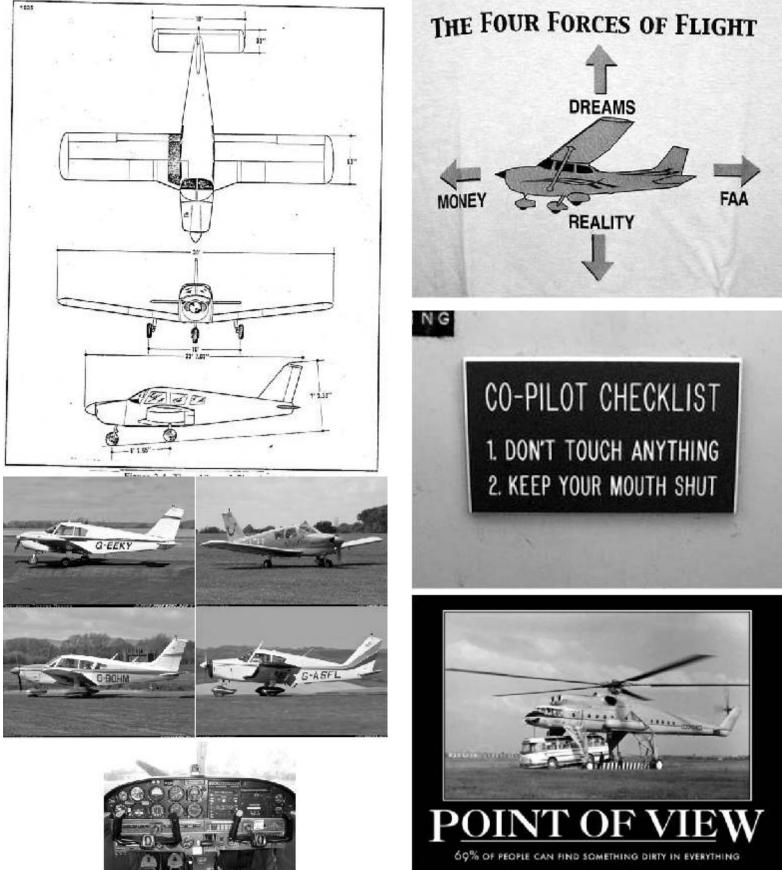














A Skydiving lesson

During class my first skydiving instructor would always take the time to answer any of our stupid first-timer questions. One guy asked, "If our chute doesn't open, and the reserve doesn't open, how long do we have until we hit the ground?" Our jump master looked at him and in perfect deadpan and answered, "The rest of your life.

The strength of the turbulence is directly proportional to the temperature of your coffee. — Gunter's Second Law of Air Travel

If helicopters are so safe, how come there are no vintage/classic helicopter fly-ins? — Anon