

WHAM

NEWS, VIEWS and REVIEWS

Issue JE-109
April 30, 2014

Official Publication of the Wichita Historical Aircraft Modelers, SAM 56,
and the Kansas Sunflower Squadron, FAC Squadron #23

Plasticizer and Retarder Use?

Most of us use dope! I guess that makes us dope addicts... Well one of the first things one learns after doping that first model is that it warps the tail surfaces out of shape (even some weak wing structures). Models that sit on a shelf (for too long) develop very brittle tissue, etc. This results from a drying of the dope which just continues on and on and on.... Just because dope is 'dry' after a couple of hours doesn't mean it is cured. Larry Conover used to leave his FF power models in a jig for a year to assure they were dry and capable of holding an adjustment. The secret of no-wrap, non-brittle structures is to use well plasticized dope (and wrap resistant structure – warren truss, etc.).

Most dope suppliers use plasticizer, but in varying amounts. Plasticizer slows the drying of dope. Sig 'Lite-cote' takes a lot longer to dry than say plain nitrate dope. Lite-cote may take many years to tighten up to the same point that a relatively un-plasticized dope will in a couple of weeks. Unfortunately, most models won't last that long. Trial and error is what you will probably use to decide to do! Highly plasticized dope will be more prone to allow wrinkles and drooping tissue, etc. Drum-tight tissue helps hold the model together, but if the underlying structure isn't strong enough – WARPs occur,!

So where is the happy medium, What to use? Since most dopes are not highly plasticized, I tend to add some. Castor oil is the traditional additive, but hearing about an UNPLEASANT EXPERIENCE WITH Olive drab blushing, dope remaining sticky enough to collect dust, grass clippings, even pebbles, proper use is important. Don't use castor oil in Butyrate dope – use only in NITRATE DOPE!!! Tri-Cresyl Phosphate (TCP) is used by many users (and indoor flyers in glue) with good results but it is almost unobtainable. Oil of Wintergreen available at pharmacies (locally – Barney's) works in both dope types. There are no hard fast rules (SO WE ARE LOOKING FOR INFO).

Non-taught dopes are: Nitrate – RANDOLPH Number E-4964 Clear

Butyrate – Randolph Number A-1690 Clear

Blushing is defined as a milky, non-gloss appearance when dope dries, caused by high humidity during the drying process. To stop Blushing use Randolph Universal Retarder, Number A-Y9910

Taken (and updated) from a November, 1969 Flightmasters Newsletter!

January 11, 2014 Meeting Minutes

ATTENDEES:

Mary Kay & George Avila, Jeff Englert, Ed Geiger, Regina & Marty Kline, Darlene & Richard Kirkland, Regina & Marty Kline, Danese & Bill Lindsay, Marty & Jim O'Reilly, Linda & Chuck Powell, Marilyn & Bill Schmidt, Ed Salguero and Dan Walton,

President Avila called the meeting to order.
The previous meeting minutes were approved.
The treasurer's report was presented by Jim O'Reilly.

OLD BUSINESS:

Club insurance conveyed to the Barber's.

George Avila detailed HAFFA's request to help out at their October contest as a club activity.

NEW BUSINESS:

Motion was made to decline as a club, but encourage members to offer individual assistance. Motion passed.

Oaklawn Activity Center was scheduled by George to allow us to sell off Jack Phelp's, Ed Ross', John Law's estate items. (We had a very good turnout from a lot of RC modelers, a substantial amount of items changed hands and everyone (sellers and buyers) were smiling by the time it ended.

SHOW AND TELL:

Ed Salguero passed along the CD on the English fellow engine collection. See it not for the engines (BEATS Bill), but for the storage facility.

Jim O'Reilly displayed an older Embryo of his own design, built in the 1980's he is planning to sacrifice it at Gainesville.

Chuck Powell showed an E-20 using the equipment being sold by Bob Stalik. 20 inch wingspan... (rules listed on next page, try one! It might stay on the field)

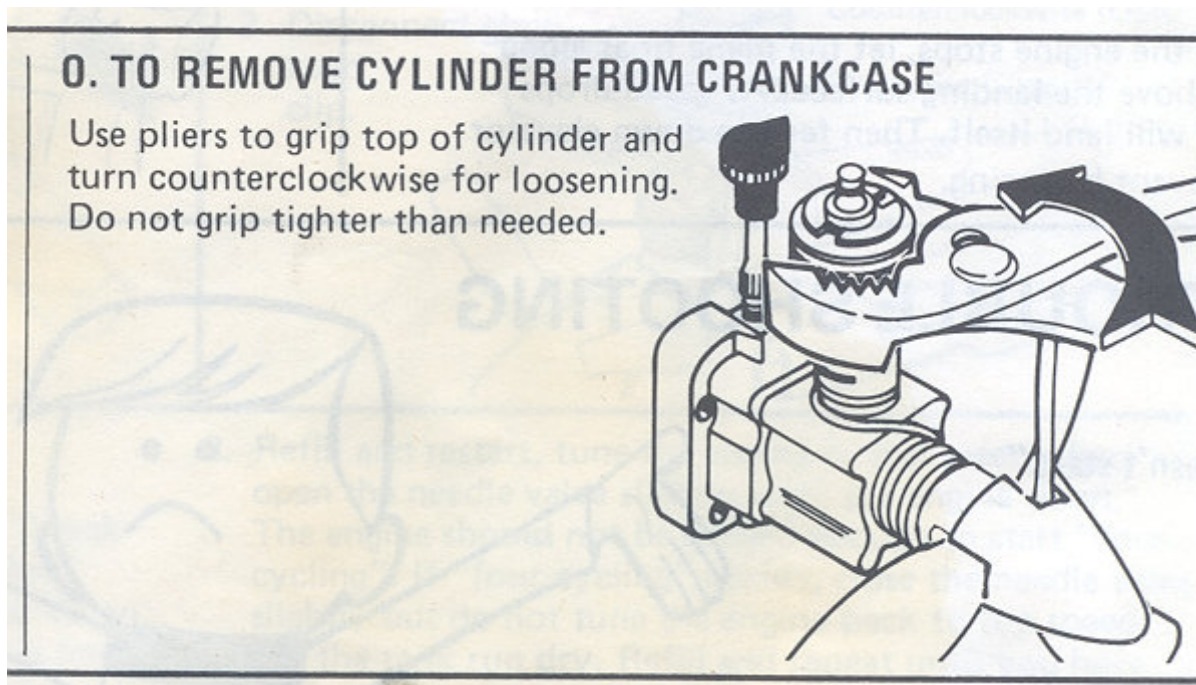
Bill Schmidt presented a Ryan FR-1 Fireball, built from a Joe Wherry plan. The original used Wright Cyclone piston and a P&W J-33 jet engines. (Ed S. described seeing one fly as a cub scout.) His second airplane was a 1946 Comet version of the Republic P-47 Thunderbolt done in the 56th Fighter group.

Ed S. announced he had found the Club banner, sewn a long while ago by Barbara Kut-

Question Asked, Answer Provided

Last issue, Bill Schmidt provided a completely innovative and functional 1/2A engine cylinder removal tool. This idea was a result of his countless encounters with engines cylinders fins mashed or dented by removal using pliers of some sort.

**Through the courtesy of Ed Salguero,
 we now know why they are always in this condition!!**



The above instruction figure copied from an L.M. Cox
 (while a division of Leisure Dynamics) Pilot Flight Manual.

E-20 Model Rules:

Projected wingspan not to exceed 20 in. (monoplane only).
 No auto-surfaces, except dethermalizer.

Minimum weight: Ready-to-fly is one ounce (28.4 gm.).

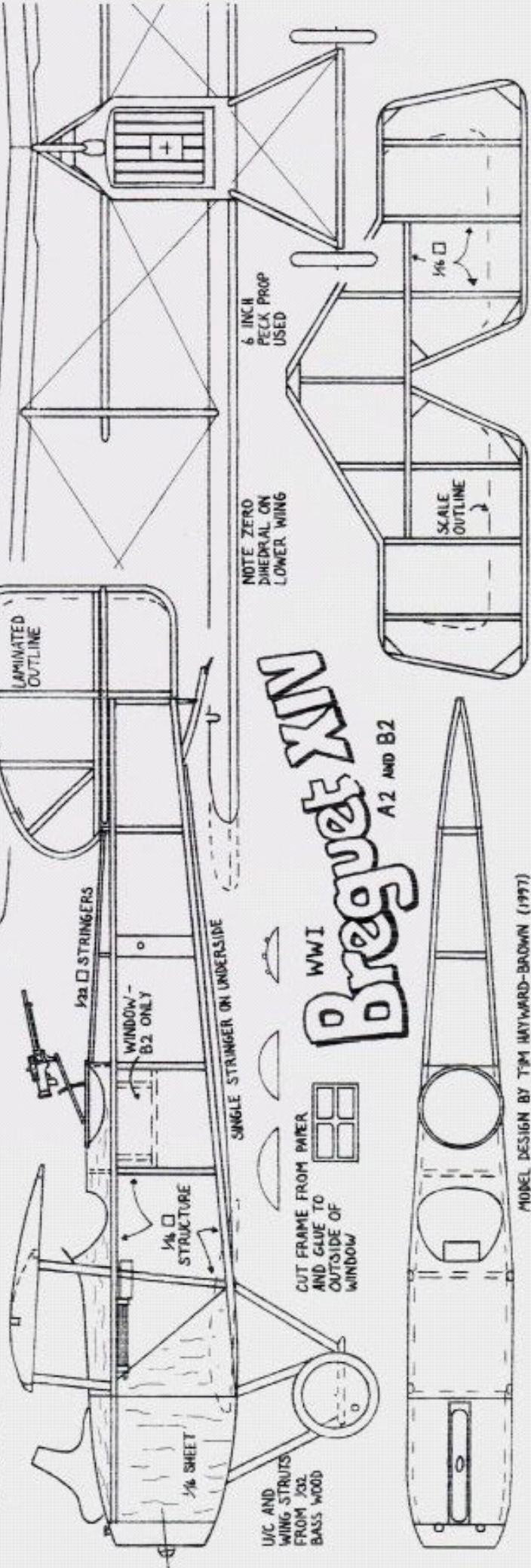
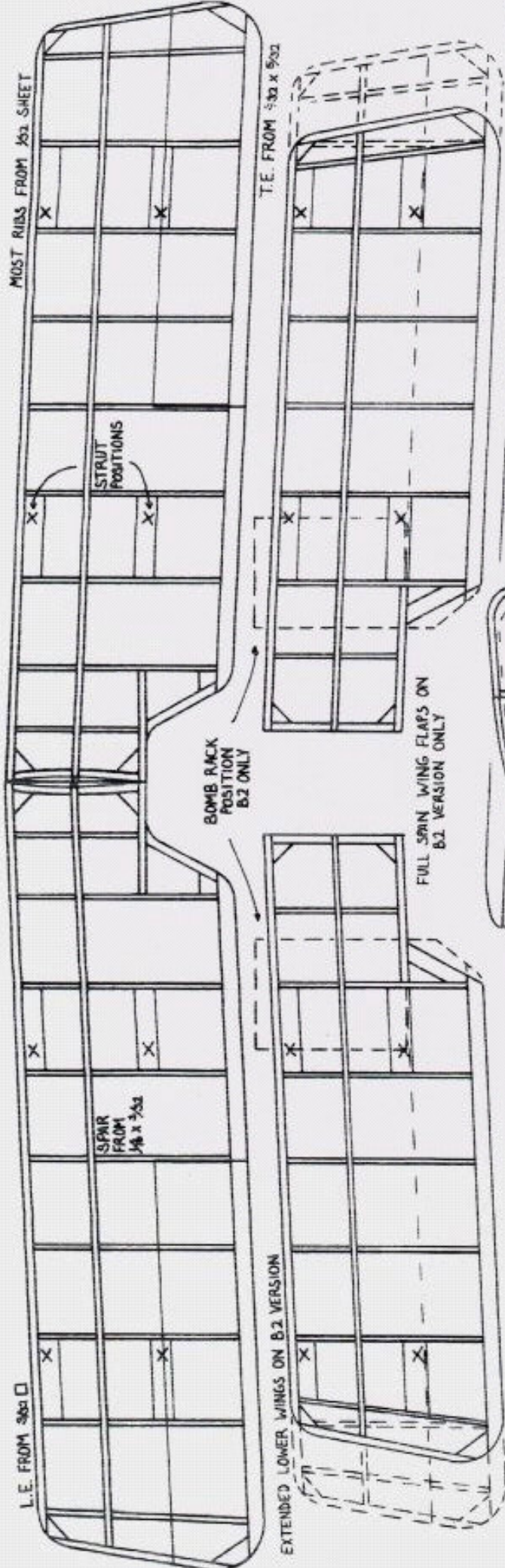
Motor Eligibility: Models must use an 8.5 mm diameter coreless electric motor (example: a Parkzone PKZ 3616 motor is commonly used). No gear drives allowed.

Propeller: The propeller is not to exceed 2.7 in. diameter.

Battery: The battery is not to exceed 160 mah, 3.7 volt single-cell Lipo.

Motor Timer: Use of an electronic or mechanical timer is acceptable.

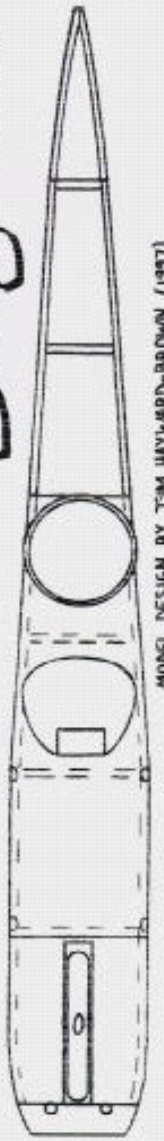
Flights: Three flights of 90 sec. out of unlimited attempts of 20 sec. or more. Motor run is limited to 20 sec. max.



Breguet XM

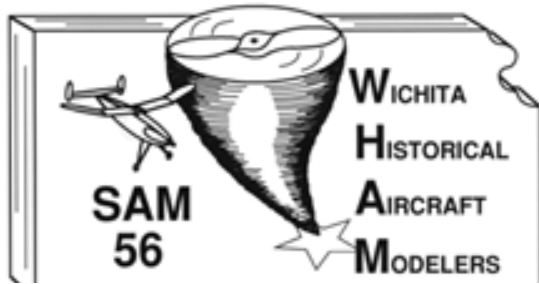
A2 AND B2

WWI



MODEL DESIGN BY TIM HAYWARD-BROWN (1997)

WHAM – News, Views and Reviews
Jeff Englert
10118 Sterling Court
Wichita, KS 67205



**FLYING
ACES**



**Sunflower Squadron
Wichita, KS**

The next SAM 56 Dinner Meeting will be at:

Mediterranean Grill

335 S Towne East Mall Dr., Wichita, KS 67207

(316) 651-5599

Saturday, May 17, 2014

Social Hour @ 6:00 PM, Dinner @ 7:00 PM..

Upcoming events:

Jun 14 / 15 Fun Fly
Jul 19 / 20 Meeting & Fun Fly
Aug 9 / 10 Fun Fly
Sep 13 / 14 Meeting & Fun Fly
Oct 11 / 12 Fun Fly
Nov 15 / 16 Meeting & Fun Fly

Club Events: 1/2A Texaco, Jimmy Allen, C/HLG, or as arranged.....

Membership Information:

Open to all interested AMA members, founded to encourage and promote the model airplane building hobby. Member dues \$20 annually, Subscription only; \$12 annually, \$18 foreign. Send checks to Jim O'Reilly, 4760 Battin, Wichita, KS 67220. All memberships and subscription renewals are due January 1st of the new year.

Club Officers: President: George Avila, 683-1474 Vice-President: Bill Schmidt 744-0378,
Treasurer: Jim O'Reilly, 744-0856 Secretary: Jeff Englert, 722-7491