



SANDERSON FIELD R.C. NEWS



CHARTER NO. 3079

Monroe swap meet Feb 6-8

CLUB MEETING

*This months meeting will be held
on Thursday February 12th.*

The PUD

**2621 E John's prairie road
Shelton, WA**

No minutes - Christmas Party last month.

No treasurers report - still sorting it out.

The board of directors are looking for direction ;) Towards that end we are putting together a survey, **some of the questions which might be included are listed below.** If you have an interest in seeing other questions we are accepting them until January 31st and hope to have the survey ready before the meeting in February.

1. Should the club pursue the purchase of our own flying site?
2. If we find property would you be opposed to a dues increase?
3. What is your main area of interest? Sport, Scale, Electric, glow, gas, etc.
4. Are you willing to serve as a club officer?
5. Should the club sponsor a demo

day for School students? Would you help.

6. Should training day be changed to a different day? It's on Thurs. now.

7. Would you be interested in serving as a instructor pilot?

8. Should we have more competitions and what type?

9. Should we have more fly-ins - (potluck, club get together type)

10. Do you have a problem with landing fee's/entry fee's?

11. Are you willing to serve on a event committee?

12. Should we have the Christmas party at the colonial house or the PUD.

The question of having the Christmas party at the colonial house was brought up, Marc Winz motioned to continue having it at the Colonial house, after discussion, some people felt the PUD was a better place as there was no cost involved and the flight museum in Olympia was also mentioned as an alternative. The motion was seconded and carried 9 to 4.

We have heard

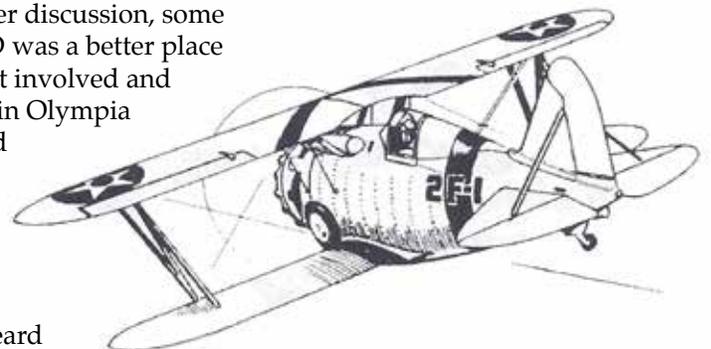
from the scale master guys, they would like to know if anyone in the club is interested in learning to be a scale judge and are willing to hold a clinic to teach the static and flight judging. The president of that organization would like to come to our next meeting and do a presentation. Tom Strom Jr. has put together a booklet on the judging aspect and suggests that anyone interested in judging or flying should see it. Contact him at flyboy23e@aol.com or 360-791-7729. Dick Robb noted the you need a caller if you plan to fly in the event. Pre registration will open the end of February or the beginning of March.

We have a new member, Mike Jones, Mark Winz will be his sponsor, Welcome Mike!

Meeting adjourned 7:40

AMA District XI now has a facebook page. Located at:

<https://www.facebook.com/AMADistrictXI>



BUILDING A FLIGHT-INSTRUMENT PANEL FOR AN RC AIRPLANE

by Royce Tivel

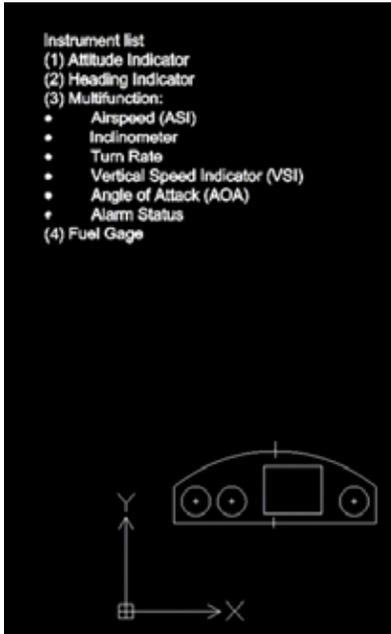
Introduction

Some time ago, I began to build a Balsa USA Laker and wanted an instrument panel for the cockpit. After discussing this with other club members, I decided attempt the project.

Panel Layout

For projects like this, I previously used AutoCad LT. However, my old version is no longer usable on my Windows-7 PC and the upgrade was too expensive. Luckily, some CAD companies are now offering their 2D CAD programs free. I downloaded a free version of Draftsight, which has all of the features of AutoCad LT and has, for me, a very familiar interface. With Draftsight, I was able to create a panel template—1/6 scale to fit the Laker—which I could print out and use. I also created a JPEG of the panel template that I could manipulate in Photoshop when creating the required panel layers. Deciding what instruments to use was the next part of the project.

Flight Instruments



The instrument requirements for VFR flight (day) are contained in the FAA's "Code of Federal Regulations, Sec. 91.205. In so far as possible, I wanted the Laker's instrument panel to contain a set of required instruments, including an airspeed indicator, altimeter, magnetic direction indicator, and fuel gage. Searching

for images of the required instruments on the Web was next in the project. There are many sources of flight-instrument images the Web. In addition to images of actual instruments, one company offers a beautiful 6-piece coaster set of the basic flight instruments. In fact, my first attempt at putting together an image set of instruments consisted of borrowing a set of four coasters from a club member and then photographing them. After photographing the "instruments," I was able to reduce them to the required size for my panel. I was able to complete the basic instrument set with images from the Web. In the end, however, I discovered other instrument possibilities that I used in place of some of the conventional instruments.

My final instrument panel consisted of the following instruments (some contained in a multifunction package):

- 1 Attitude Indicator,
- 2 Heading Indicator,
- 3 Multifunction:
 - Airspeed (ASI)
 - Inclinator
 - Turn Rate
 - Vertical Speed Indicator (VSI)

CLUB OFFICERS

President.....	Tom Strom.....	(360)350-0181
Vice President	Burt Daggett	(360)427-6653
Treasurer.....	Jack Mitchell	(360)462-0232
Secretary	Bob Beatty	(360)229-3408
Safety Officer	Tom Strom Jr.	(360)350-0181

BOARD MEMBERS

Board Member	Tom Strom	(360)350-0181
Board Member	Jody Diaz.....	(360)427-6102
Board Member	Stacy Myers.....	(360)426-9367
Board Member	Bob Beatty	(360)426-5601
Board Member	Burt Daggett	(360)427-6653
Board Member	Jack Mitchell.....	(360)462-0232
Alt Board Member	Bob Mason	(360)426-9256
Alt Board Member	Chuck Kentfield	(360)866-9473

DUES ARE \$75 IF PAID BEFORE JAN 1ST, \$100 THEREAFTER.

IF YOU PAY BY MAIL SEND YOUR DUES, PROOF OF 2014 AMA MEMBERSHIP AND A SELF ADDRESSED STAMPED ENVELOPE TO THE TREASURER:

**JACK MITCHELL
P.O. Box 1393
Shelton WA 98584**

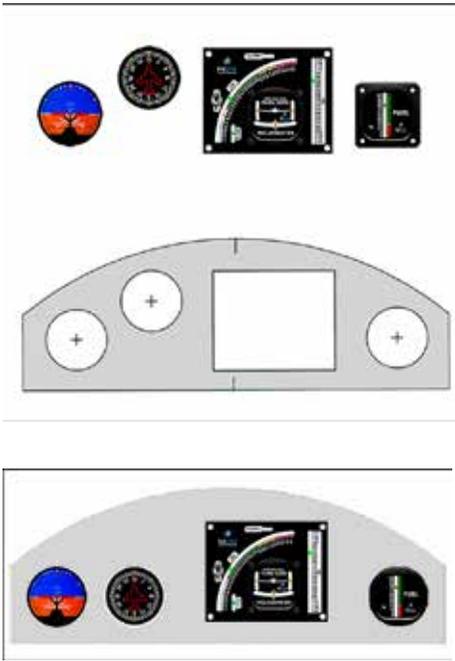
Make checks payable to SFRCF

BUILDING A FLIGHT-INSTRUMENT (CONTINUED)

- Angle of Attack (AOA)
 - Alarm Status
- 4 Fuel gauge.

Photoshop Layout

In Photoshop, I created a layered image, including panel and instruments, and moved the instruments into their positions on the panel. I cut out a panel template and verified that it was the correct size for the Laker.



One club member observed that there were no switches in the panel. So, I got some pins and beads in order to add switches and indicators.

You can see this article with links to online resources as it was written at:

<http://www.selectdigitals.com/articles/instruments.html>



Building the Panel

Now that I had the templates available, I could construct the actual panel. The panel is a sandwich of 4 layers: balsa back, printout with instruments, plastic (for the glass), and plywood front. Because the instruments are high resolution, they show up fairly well even in this 1/6 scale panel.

I purchased a 1/2" Forstner bit to drill the round holes for the instruments. The good news is that after drilling the holes, I could resize the instruments in Photoshop to exactly fit the openings, as necessary.

All photos and screen shots by the author

February 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2 9:00 AM RC Breakfast	3 SFRCF Board meeting	4	5 3:00 PM Training night	6 Monroe Swap Meet	7
8 Monroe Swap Meet	9	10	11	12 SFRCF Club meeting 3:00 PM Training night	13	14
15	16	17	18	19 3:00 PM Training night	20	21
22	23	24	25	26 3:00 PM Training night	27	28

Training nights are ALWAYS weather permitting, check the weather at the field before leaving

Sold days can change, check out website before heading to the field.

<http://sfrcf.quintex.com/event/events.html>

Club Scheduled Events for 2015

Event dates in black are scheduled. Events in gray are complete.

The new contract allows us to schedule non-exclusive days again, however if the car clubs don't go to the new track we may not keep many.

January 1st 9:00 amFirst fly of the year - Sanderson field - Locks will be changed!

May 29th, 30th & 31stUSSMA qualifier and Scale rally

December 10th.....Christmas Party @ the Colonial House from 6 to 10

dues \$75 before January 1st and \$100 on or after

Check out our web site at <http://sfrcf.quintex.com>