



Phoenix Model Airplane Club

HAVING FUN WITH MODEL AIRPLANES SINCE 1937

Volume 17 Number 6

June 2012



Hot Stuff Contest Results
Eager Delta Darts
Hodge Podge
Royal Flush A-2

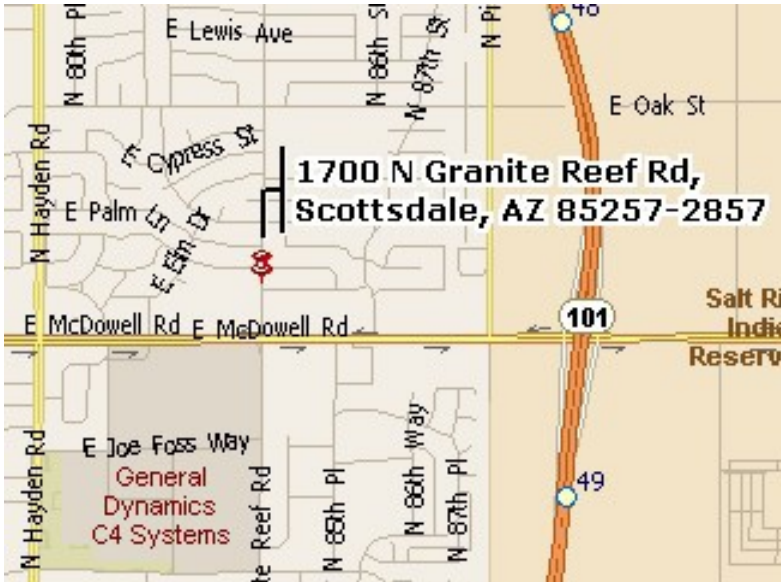
Meeting - June 12 7:00pm Room 10
Contest - September 16 7:00am Eloy



NEXT MEETING

Tuesday June 12th 2012
 07:00 PM Room 10
 Granite Reef Senior Center
 1700 N. Granite Reef Rd.

Visitors Welcome



NEXT CONTEST

Fall Kick-off

Sunday September. 16th 2012
 WEBSTER FIELD – ELOY
 AMA membership required for competitors

Visitors Welcome



CLUB OFFICERS

President: _____ Elmer Nelson (480)-460-1366

Vice President: _____ Tom Gaylor (480)-892-0338

Secretary: _____ Bill Sewell (623)-551-8678

Treasurer: _____ Elmer Nelson

Newsletter Editor: _____ Bruce Grawburg (602)-978-4215
 bgfalcon89@cox.net

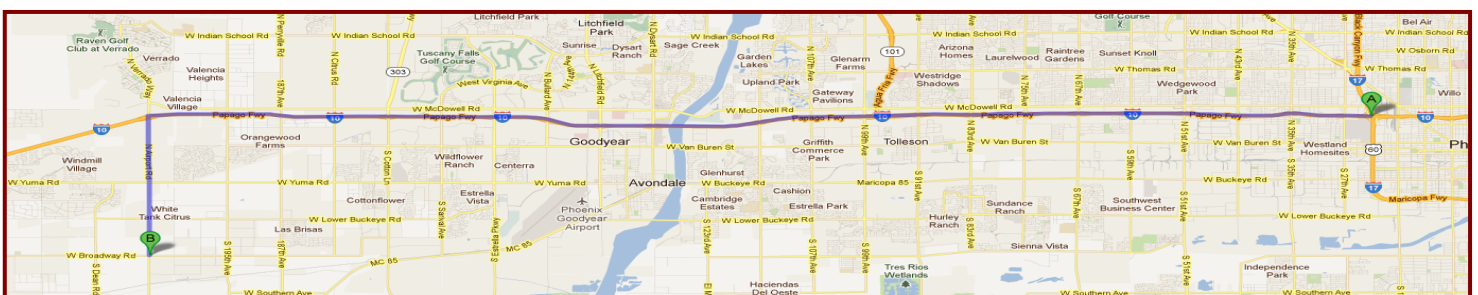
Webmaster: _____ Alan Petersen
 alan@apetersenpaintings.com

Flying Aces Squadron #72 flying site

W Broadway Rd & S Airport Rd, Buckeye (NW corner)

22.5 miles (25 minutes) west of I-17 exit 120 then go south 3.7 miles

Available for PMAC rubber powered use **(NO POWER or ELECTRIC allowed)**



Cover Photo : Elmer Nelson launching large stick model

Prez Speaks

An all out search for a new flying field has begun. Prior to the planting of crops on three sides of our area, we had one of the very best fields in the U.S. We had ability to chase models at least a mile in any direction, with unencumbered distances well over two miles in some directions. We still have enough room to stage successful contests for our monthly club affairs. But, the space restrictions make managing the SWR very difficult. As it has been for many years, the SWRMA that sponsors the SWR Contest and manages our field is the lead group in this search. We will keep you posted.

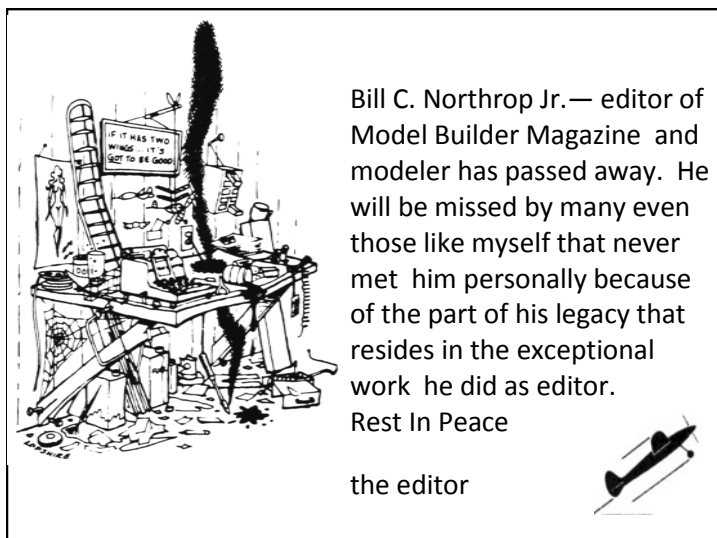
Please remember the farmer who has these crops has granted us the permission to walk across his fields to retrieve our models. He has also granted us permission to ride our chase bikes along the edges of the fields on paths they drive their equipment. However, *do not ride onto the open fields* whether or not they are planted.

At our last meeting, Dick Wood moved that we do some indoor flying at our meetings. His motion was approved. The good news is we might be able to use Room 2 to fly in (assuming it's not being used). Room 2 has a high ceiling and is very spacious. So bring along something to fly at our next meeting.

Bruce Grawburg has encouraged us who have a computer to accept the newsletter via email delivery. Doing so will save us enough money that we should be able to rent Room 2 for our future meetings and stay within our current budget. A big thanks to Bruce!

Our contest bonus system seems to be doing what we had hoped for. While really too early to evaluate this, it looks like we have wider participation and more flying going on. The scoring change also seems to making the run for the top, a more competitive situation. Our next formal contest is in September. Dick Nelson will be the CD.

Elmer Nelson



Bill C. Northrop Jr.— editor of Model Builder Magazine and modeler has passed away. He will be missed by many even those like myself that never met him personally because of the part of his legacy that resides in the exceptional work he did as editor.
Rest In Peace

the editor

Memorial Day

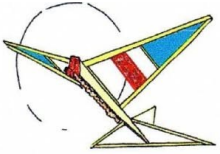
- Theodosia Pickering Garrison

A handful of old men walking down the village street
In worn, brushed uniforms, their gray heads high;
A faded flag above them, one drum to lift their feet-
Look again, O heart of mine, and see what passes by!

There's a vast crowd swaying, there's a wild band playing,
The streets are full of marching men, or tramping cavalry.
Alive and young and straight again, they ride to greet a mate again-
The gallant souls, the great souls that live eternally!

A handful of old men walking down the highways?
Nay, we look on heroes that march among their peers,
The great, glad Companions have swung from heaven's byways
And come to join their own again across the dusty years.

There are strong hands meeting, there are staunch hearts greeting-
A crying of remembered names, of deeds that shall not die.
A handful of old men?-Nay, my heart, look well again;
The spirit of America today is marching by!



THE DELTA DART

A few years ago one of our member's wife had a Girl Scout Troop and some of us were "volunteered" to do a Delta Dart program for them. It turned out to be a lot of fun for us as well as the girls.

Some of the things we taught were the difference between manned and unmanned aerodynamics, why the Delta Dart has so much dihedral and decalage. The characteristics of the rubber we use, and how to optimize rubber motor length to get maximum duration out of the model. Not too technical, keep it simple and fun.

Some of the things we learned were that girls can do this as well as the boys, and in many cases better. Another thing is that you must limit the class size to no more than 4 kids to an experienced instructor and that 2 is even better. Beyond that the models become toys instead of the great instructional tool that the Delta Dart is.

If you get the chance to put on a Delta Dart program, you'll find it a very rewarding experience.

As good as the delta Dart is, there are a few things you can do to improve them.

The first is the rear motor hook. The instructions call for a pin pushed into the bottom of the fuselage. The problem here is that the motor is up against the bottom of the fuselage and can't unwind properly (picture 1)

The solution is to make a rear hook from a paper clip. It spaces the motor away from the fuselage and improves performance quite a bit. (picture 2)

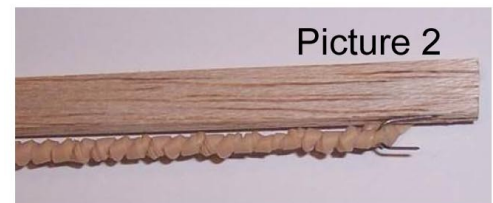
The next suggestion come from Jerry Murphy (who has done a lot of Delta Dart programs) and involves the wing tips. Picture 3 shows the standard wing tip and depends on the covering material for stability. Picture 4 shows Jerry's method. Much stronger. Jerry is a member of the Magnificent Mountain Men club in Colorado.

And a very special thanks to Elmer Nelson and Tom Gaylor for coming all the way to Eagar to help with the kids from Round Valley School.

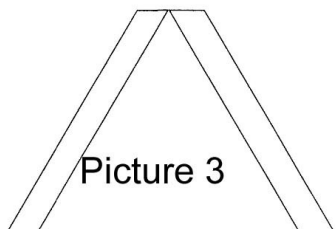
Steve Riley



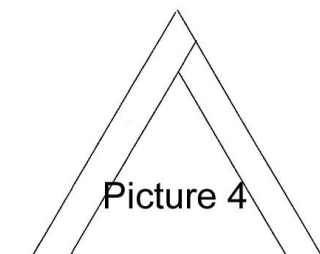
Picture 1



Picture 2



Picture 3



Picture 4

Future Free Flight Champions / Pilots / Engineers / Designers



Round Valley Dome



Dani Minton, Nikelle Hollender, Kendi Phelps, Mrs. Patton, Chanelle Pena, and Kourtney



Steve Riley, Marcus Wiltbank, and Brian Owens



Eloy Contest Results *Hot Stuff*

May 19, 2012

This contest was my first time as CD relating to Free Flight. I would like to thank everyone for their patience while I was doing on the job training. There was a great turnout for a May event with 14 contestants braving the heat. The day started with calm winds and fortunately stayed that way all day. Winds did change some but not enough to force moving starting line. Dick Nelson had a very good day maxing all but one flight in 5 different Classic & OT gas events. The two-minute rubber events had six entries and several made a max in all their flights but Peter Brocks won in the fly off. The three-minute rubber combo events had six entries but Dick Strang in 1st and Kent Prescott 2nd led by a wide margin over the rest of field. The three-minute FAI combo was very close with Dick Wood in 1st and Enes Pecenkovic 2nd and Peter Brocks 3rd and only nine point's difference between them. Enes Pecenkovic cleaned every body's clock with the glider event getting a max on every flight with a discus

hand launched glider that flew very nice. There were no accidents on anyone's personal property or persons except for a few planes that flew back to Terra Firma at full speed before the engine could shut down. Overall, I thought the day went very well and Thank You to Bridgett for all the timing help she gave.

Look forward to fall flying season and everyone have a nice summer,

Henry Werner

Contest Director

PMAC / TFC Championship					
Points Standing 2012 Season-To-Date					
	Feb-12	Mar-12	Apr-12	May-12	Total
Jean Andrews	23	10	45	45	123
Dick Nelson	11	24	31	50	116
Kent Prescott	18		33	32	83
Enes Pecenkovic			31	41	72
Tom Gaylor	14	15	2	38	69
Mike Keller			31	34	65
Bruce Grawburg	10	1	20	20	51
Peter Brocks			21	25	46
Elmer Nelson	5	2	20	18	45
Dick Strang	15		8	21	44
Ralph Hotz	15			8	23
Henry Werner			19		19
Mike Roseberry				11	11
Dick Wood			4	7	11
Tom Miller	1		4	3	8

Eloy Contest Results *Hot Stuff*

PMAC / TFC Championship Points Standing 2012 Season-To-Date

Category / Contestant

Feb-12

Mar-12

Apr-12

May-12

Total

AMA/classic Gas

Jean Andrews	4.0	3.0	3.0	5.0	15.0
Tom Miller	1.0		4.0	3.0	8.0

Nostalgia Gas / OT Gas Combo

Dick Nelson	11.0	10.0	16.0	37.0	74.0
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2 minute combo

Jean Andrews	8.0		25.0	24.0	57.0
Peter Brocks			10.0	16.0	26.0
Tom Gaylor	3.0		2.0	13.0	18.0
Mike Keller			6.0	11.0	17.0
Ralph Hotz	6.0			8.0	14.0
Mike Roseberry				11.0	11.0
Henry Werner			7.0		7.0
Dick Nelson		2.0	4.0	1.0	7.0
Bruce Grawburg	1.0		4.0		5.0
Enes Pecenkovic				4.0	4.0

3 min Rubber/Glider Combo

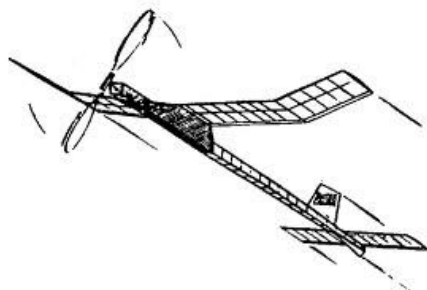
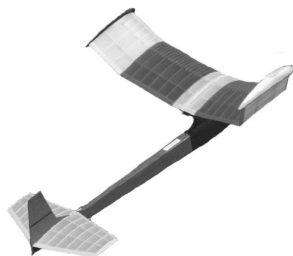
Kent Prescott	18.0		20.0	25.0	63.0
Dick Strang	15.0		8.0	21.0	44.0
Tom Gaylor	11.0	6.0		9.0	26.0
Enes Pecenkovic			13.0	11.0	24.0
Elmer Nelson	1.0		10.0	7.0	18.0
Bruce Grawburg	5.0	1.0	5.0	5.0	16.0
Jean Andrews		3.0			3.0

3 min FAI combo

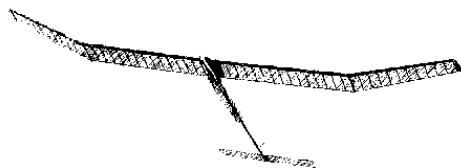
Peter Brocks			7.0	5.0	12.0
Enes Pecenkovic			6.0	6.0	12.0
Dick Wood			4.0	7.0	11.0
Elmer Nelson	4.0				4.0

Catapult/ HL Glider combo

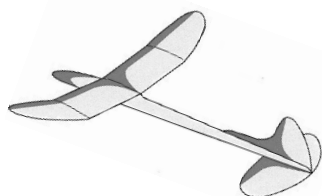
Mike Keller			21.0	19.0	40.0
Enes Pecenkovic			12.0	16.0	28.0
Jean Andrews	3.0		9.0	8.0	20.0
Bruce Grawburg			7.0	11.0	18.0
Tom Gaylor		5.0		12.0	17.0
Elmer Nelson		2.0	6.0	7.0	15.0
Kent Prescott			9.0	3.0	12.0
Dick Nelson		4.0	3.0	4.0	11.0
Henry Werner			8.0		8.0
Ralph Hotz	5.0				5.0



"It goes around pylons fast but does not gain altitude very well"
Tom Gaylor



Randy Archer



Eloy Contest Gallery *Hot Stuff*

Photos by Tom Gaylor



Webster Field Eloy May 2012



Elmer Nelson - Peter Brocks - Henry Werner



Jim Cruise - Dick Wood



Jean Andrews



Bill Sewell



Kent Prescott



Bruce Grawburg



Bruce Grawburg & Mike Keller



Peggy Wilson



Dick Nelson



Enes Pecenkovic



Pecenkovic HLG fleet



Jasminka Pecenkovic

Bending Aluminum Tubing

An Article published in the September 2006 issue of Flightplug, the newsletter of the Southern California Ignition Flyers, Mike Myers, Editor

I've collected some ideas about bending aluminum tubing from an extended exchange of e-mails on the SAM Talk forum. You can try almost any of these techniques, and they'll more or less work for you--but you'll have to experiment to see which one is the best and the easiest.

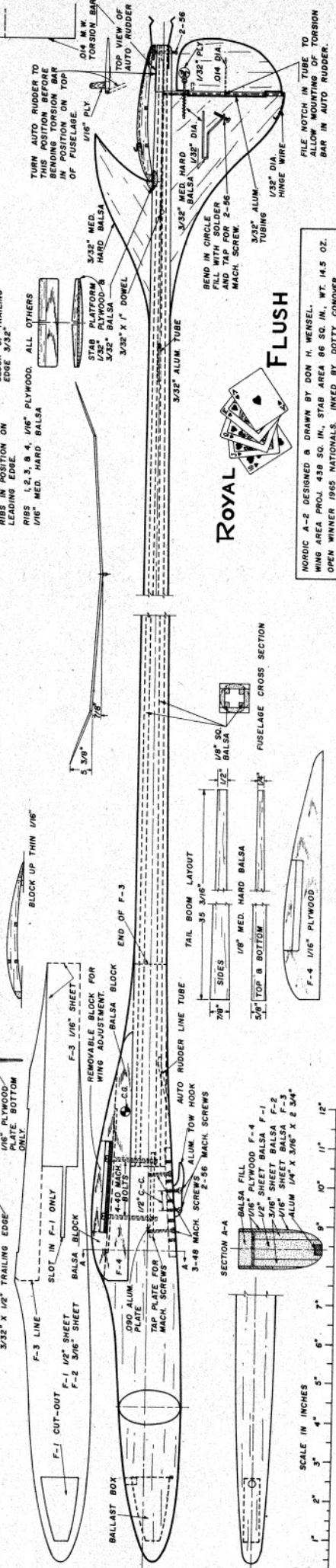
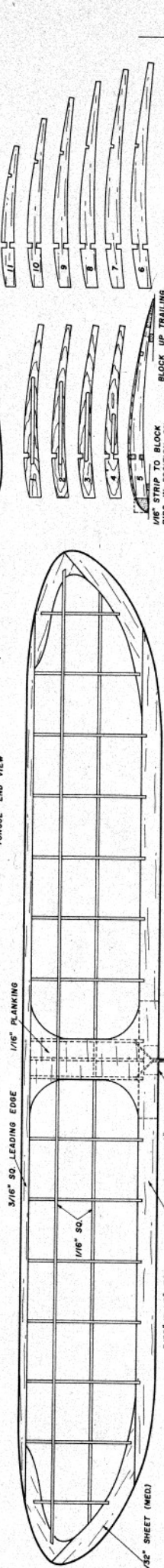
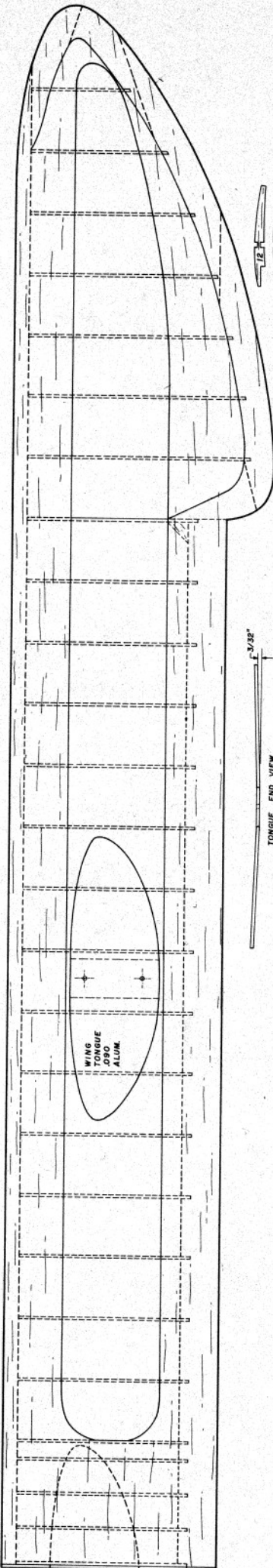
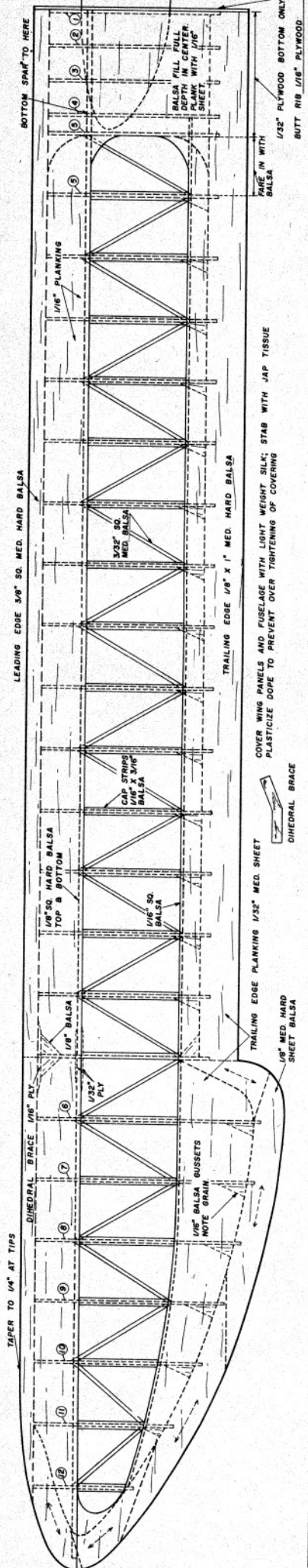
1. A fellow named Mike McIntyre had the following suggestion: If you want an easy way to bend the tubing without it kinking plug one end up, then fill it with water (don't plug the other end up!) and place it in the freezer. With the water frozen inside the tubing, now bend the tubing around your curve. Don't wait too long or the water will thaw out inside before you get your bending done. When you are done bending your tubing let the water thaw out and there you have it.

2. Variants of McIntyre's idea include putting a piece of masking tape over one end of the tubing and filling it with salt or sand, then bending to the desired curvature.

3. Gene Wallock suggests as follows: The easiest way to bend aluminum is to make a simple form block. Cut a plywood core that represents the inner curve of the form. Leave a couple of inches of straight edge so you can hold the tubing in place. Screw on plywood faces that extend beyond the inner core shape about 1 1/2 times the diameter of the tubing. To work properly, the tubing must fit snug between the sides. Drill a 1/8 hole in the straight portion for a holding pin. This pin will keep the tubing against the core and is located so it almost touches the outside of the tubing. When you're ready to bend the tip, slide the tube behind the pin. This way it won't pop out then you start to bend. It would be a good idea to glue/screw a block to the bottom of the fixture to hold it in a vise. After sliding the tubing behind the pin, hold it firmly to the fixture. With your bending hand, put tension on the tubing and gently bend it around the core shape. The tube will have a bit of spring back, so you might want to over bend a bit to compensate for this. If it's not bending tight enough, take the fixture apart and reshape the core to compensate for spring back. This is why you didn't glue the fixture together in the first place. This is a good time to understand tube failure during bending. The tubing will kink and the sides will go out. The groove you built into the bender will capture the tubing and restrain the tubing from trying to expand sideways.

4. Gene also mentioned that K & S sells a 1/16 & 3/32 tube bender that works just fine for small tubing. Get one and learn how it works. Your editor notes that DuBro markets a series of tubing benders for larger diameter tubes. If you look at them, you'll see the design involves a curved block with sides that pinch the wall of the tube to keep it from bulging/collapsing while bending.

5. I believe that K&S also once sold some tube bending devices that looked like four inch long screen door springs with a slight flare at one end. They were sold in a pack. with five or six different diameters in the pack. You slipped the tubing inside the "screen door spring" and bent the tubing to the required curvature.



ROYAL

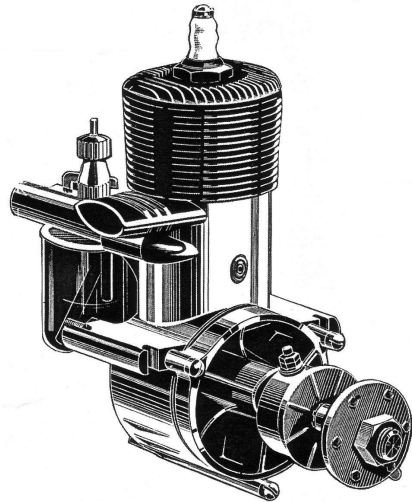
 FLUSH
 NORDIC A-2 DESIGNED & DRAWN BY DON H. WENSEL.
 WING AREA PROJ. 439 SQ. IN., STAB AREA 66 SQ. IN., WT. 14.5 OZ.
 OPEN WINNER 1965 NATIONALS. INMEX BY DOTTY CONOVER.

Classifieds



I have this super cyclone GR series single ignition, its a .604 cu in and has original box with all paper work and manual. turns over with real good compression. I've seen one on eBay go for \$177. and that was without box and paper. I think I would like to see at least that matched.

MARK MAKAROV [mailto:smackmak27@hotmail.com]



Might be useful to know, might not- a good source of really small O-rings can be found by breaking up disposable cigarette lighters - these frequently have two or three of them, each of a different size.

from Andrew Curl courtesy of Al Lidberg

PMAC / TFFC DAWN PATROL

	Saturday	Sunday
June	9	24
July	7	22
August	11	26

Next Eloy Contest

Start Time 7:00 am



Start Time 7:00 am

Nat'l Cup	Nat'l Cup	Nat'l Cup	Nat'l Cup	Nat'l Cup	Nat'l Cup	Nat'l Cup	America & National Cup		
President's Cup	St Patty's Bash	I-10 Challenge	Hot Stuff	Fall	Ghost	Armed Forces	Arizona Free Flight		
Sunday	Saturday	Sunday		Kick-off	Riders	Memorial	Championships		
2/19/2012	3/17/2012	4/22/2012	Saturday	Sunday	Saturday	Sunday	Saturday	Sunday	
	2/19/2012	3/17/2012	4/22/2012	5/19/2012	9/16/2012	10/20/2012	11/11/2012	12/1/2012	12/2/2012
<i>Contest Directors</i>	Lichtenberge	Ralph Hotz	Gaylor	Werner	D. Nelson	Loeffler	Andrews	E.Nelson/ Burros	
<i>Contest Classification</i>	A	A	A	A	A	A	A	AA	AA

Note: All one day contests will be flown in combined categories. Anything you bring to the field can be flown in one of 6 categories

*For national cup points, junior AMA & Classic 1/2A Gas are combined

NEXT MEETING

Tuesday June 12th 07:00 PM Room 10

Granite Reef Senior Center

1700 N. Granite Reef Rd.