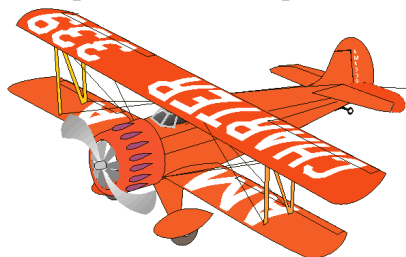


NEWSLETTER OF THE CHARLES RIVER RADIO CONTROLLERS, INC



CRRRC FLIGHT-LOG

<http://www.charlesriverrc.org/>

AMA CHARTER 339

OCTOBER 2003

VOLUME 40 NUMBER 10

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508 653-3560

joel.foner@fonerassoc.com

GENERAL MEETING

Wednesday
October 15th
7: 30 PM

*“Model and high
power rocketry”*

By Kevin Cuomo
and Robert Galejs.

*We will discuss a variety of
rocketry topics ranging from
engine types, rocket stability,
flight avionics, to recovery
techniques. Expect to see a wide
variety of hardware for "show
and tell".*

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OCTOBER RAFFLE

1st Prize *

A Futaba 6XAS w/4 BB
3004 servos, battery, etc.



2nd Prize *

Pair of genuine Zurich
wraparound sunglasses.
Perfect for those
sunny fall days. Fits
over regular glasses.



3rd Prize *

Selection of Cool Tools.

***Show and Tell prize will be A
Selection of Cool Tools!**

*Thanks to Alex of Alex's R/C
Hobbyworks for his discount to the club.
Please consider him for your next hobby
purchase. Alex's is located in Belmont,
near the intersection of Belmont,
Watertown and Cambridge, at 129
Belmont St.*

*--Jon Leehey
Raffle Chairman*

ARF Plane Inspections, Some Thoughts (Part I)

Several years ago there were four crashes in one summer of Almost-Ready-To-Fly aircraft, all on their first flights! Because of this CRRC created a practice of having club members inspect and, if necessary, make corrections to ARFs assembled by first-time modelers. I and others have been doing this and this article is a short note on what has typically been found and what typically is done to these aircraft.

I am adamant in doing these inspections in my workshop as opposed to at the field. On the field, there isn't enough time to do any more than a superficial look-see and there's usually overwhelming pressure to "go as is" even if discrepancies are found that may require more elaborate steps to correct than is possible at the time. Also, it's impractical at the field to check the aircraft thoroughly up to and including tightening all mechanical bolts.

It's important to keep in mind that for first-time modelers, assembling an ARF is a very complicated process with lots of information provided to the point of saturation. What's important, what's less so, and very importantly, what's not told in the instructions – all these issues improve with experience but for a first-time hobbyist with a new airplane and radio system, trying to understand all the details can be very confusing.

In checklist fashion here's a breakdown of the sorts of things I check over and adjust on a typical .40 sized gas powered high wing aileron trainer. In brackets <> I've added typical findings uncovered.

Engine and tank:

- The tank is removed and the tank plumbing checked for correct assembly. <This past week I found a tank assembled per the instructions, but the pickup line was so flexible the "clunk" easily ended up at the front of the tank!>
- The tank is checked for leaks by sealing the vents and pressurizing under water. <I've found leaks in never-used tanks along the plastic seam lines! >
- All engine bolts are fixed with LocTite ®. This includes the muffler retaining bolts as well as the engine mount bolts.

- I add a fuel filter, no ifs or buts. The usual trash caught, with new airplanes, are fragments of plastic from the tank's molding 'flash' – not what you'd want in the carburetor or needle valve!
- The muffler outlet is rotated, if necessary, to dump the exhaust down below the aircraft rather than over the top of the wing. For OS engines in particular, this has to be done carefully as it's easy to damage the muffler's bolt heads – very soft metal here for some reason.
- The throttle barrel is checked to make sure it opens and closes fully when commanded.
- Retaining the prop nut – I've tried many different techniques and the most reliable way to do this is to really tighten the prop nut with a large adjustable wrench; I use a 14" wrench. The standard dog bone 4-way wrench, or any smaller wrench, just doesn't exert the torque to tighten this properly.
- Spinner: If needed, a Dremel tool is used to make sure the spinner openings are large enough to clear the prop blades.

Wing:

- I fiberglass the wing center seam with heavy fiberglass, being sure to strip off the covering underneath first. This is an essential step that robustly avoids any unseen wing joiner and wing joiner box problems. <The four ARF crashes mentioned above were ALL due to wing center section failures and adding fiberglass cures this problem immediately! >
- I check the ailerons for proper throws and neutrals. Checking aileron neutral position isn't easy for first-timers to do and is easily overlooked.
- Remember that most ARFs are supplied with metric threaded hardware that's incompatible with American SAE 2-56 threads. So be careful not to mix clevises and other threaded items.
- On the primary control surfaces, I replace any threaded linkage retainers (E-Z Just or equivalent) with Z-bends or some other more robust arrangement. It would be disastrous if a linkage retainer screw loosening led to loss of elevator control, for example!

- I install short sections of fuel tubing over all clevises to insure they don't open in-flight, or anytime.
- Particular attention is paid to the nose steering wheel linkage to make sure there's no binding. I usually file a "flat" into the nose wheel wire to help retain the connectors and spacers there. Loc-Tite ® here is essential as this linkage really takes a beating.
- I've found that for ARF trainers, a Z-bend on the nose steering wire isn't necessary and makes the linkage hard to remove or adjust. A 90-deg bend on music wire, with a fairly long leg, is sufficient and readily removed when needed.

End of part one. Next month we'll finish up with "Radio Equipment" and other miscellaneous items.

--Pete Young

TREASURERS REPORT

Report Date 9/30/03

Starting Balance 8/31/03	
Checking (after #1320)	4,191.05
Savings	5,609.26
Cash	25.00
Total Starting	9,825.31
Income	
Interest on Savings (September)	3.69
Total Income	3.69
Expenses	
Mike Cormier – July Newsletter #1321	37.27
ESL – Soar-In Fees #1322	126.00
Monthly Bank Fees (September)	11.00
Total Expenses	174.27
Ending Balances	
Checking (after #1322)	4,016.78
Savings	5,612.95
Cash	25.00
Total Ending 9/30/03	9,654.73

Signature: Miner Crary

SEPTEMBER GENERAL MEETING NOTES

Secretary's Report: September 2003 General Meeting

Derek Veliz – opened the business meeting at 7:45pm.

Derek started with a video of this year's NEAT Fair.

Secretary's report was approved as printed in newsletter.

Treasurer's report was not printed in newsletter.

Field Reports

Medfield – The field is more crowded now that Millis lost their second site. Bill Costellis of the Millis Club stopped by to explain the new queuing system for flight time at Medfield during peak flying (Sat/Sun 9am-Noon)

Davis – Lots of Football practice has limited the flying schedule.

Old Business

None.

New Business

Next BOD – September 23.

The Woodsom Farm Festival fun-fly is Saturday Sep. 20th.

Heli Fun-Fly at Lazy Loopers in Wrentham on Sep 20th

The CRRC Annual Auction is on November 9th.

Raffle

– Bird of Time ARF? –

Marc Drela – Canopy Scissors

John Leehey – Dead Center Tool

New Pilots

None.

Guests

Al and James Abramson – interested in joining!

David Steelam – interested in joining.

Ken Artle – interested in gliders.

Dave Kornbau – a new member, flies Helis.

Robert Insoft – New member, gas power.

Stephan Burnet – new member, electric's.

Gary Cox – interested in joining

Derick closed the business meeting at 8:20pm.

Show And Tell

Andrew Johnson – Graupner Terry modified with ailerons and brushless motor power.

Marc Drela – Multiplex Royal Evo radio system.

Lee Arnold – House Of Balsa Electric J-3 Cub.

Jeremy Harkin – Balsa USA Fokker E-III Eindecker, Magnum .52 4-stroke power.

John Leehey – Tower Hobbies brand fuel tubing free to a good home, it doesn't hold well.

Dave Kornbau – Heli with onboard engine temp monitor.

James Abramson – Wingo.

Show and Tell Prize – Jeremy Harkin – Miter Box.

Speaker

Bob Scott – gave a lecture on giant scale modeling.

--Jeremy Harkin

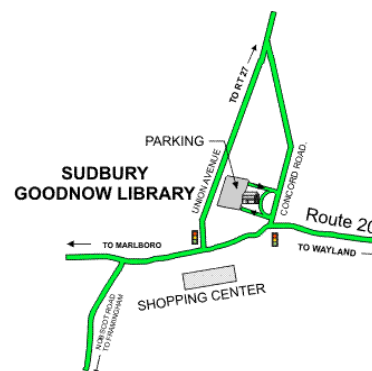
BLURB

Are you a new CRRC member? Want to get all the latest club updates? Find out when people are going slope soaring at the Cape? Or just want to join the daily RC chatter? Then subscribe to the CRRC Email list! Direct your web browser to:

http://www.charlesriverrc.org/crrc_emailist.htm or just send an email to walter@toplayer.com requesting that you be added to the list. See you online!

--Dave Walter

OCTOBER DIRECTOR'S MEETING



The next directors meeting will be, Tuesday, October 21st at 7:30 PM, at the Sudbury Goodnow Library.

CRRC BUILDING AND FLIGHT INSTRUCTORS

This is our list of qualified and willing instructors. Power planes are flown only at the Bill Martin Flying Field in Medfield. Sailplanes and Electrics can be flown at the Davis Farm Field on Rte. 117 in Sudbury. See <http://www.charlesriverrc.org> for directions to the flying fields. If you have any questions about the construction of your airplane, or want to have an experienced pilot pre-flight check your airplane before heading to the flying field, then call any of the building instructors.

INSTRUCTOR TOWN TELEPHONE

POWER:

Chief Instructor:
Ruane Crummett
(Wayland 508-655-2234)

Bob Scott	Norwell	781-982-0268
Pete Young	Watertown	617-923-4184
Ken Antonellis	Natick	508-653-4513
Jon Leehey	Wayland	508-358-5721
Dave Walter	Hudson	508-562-5400
Fritz Bien	Concord	978-369-1720
Neil Kaufman	Sudbury	508-443-9647

SOARING:

Dick Williamson	Sudbury	978-443-8549
Dave Walter	Hudson	978-562-5400
Bruce Schneider	Hudson	978-562-9900
Fritz Bien	Concord	978-369-1720
John Nilsson	Clinton	508-368-7136
Pete Young	Watertown	617-923-4184
Lincoln Ross	Waltham	781-891-0332

ELECTRICS:

Bruce Schneider	Hudson	978-562-9900
Fritz Bien	Concord	978-369-1720
Dave Walter	Hudson	978-562-5400
Derrick Veliz	Acton	978-266-1739
Pete Young	Watertown	617-923-4184
Lincoln Ross	Waltham	781-891-0332

HELICOPTERS:

– None Available at present –

BUILDING:

Ruane Crummett	Wayland	508-655-2234
Fritz Bien	Concord	978-369-1720
Joel Foner	Natick	508-653-3560
John Weigel	Natick	508-653-3560
Pete Young	Watertown	617-923-4184
Derrick Veliz	Acton	978-266-1739

CRRC LIBRARY

The club keeps a library of videos and books. They are made available at club meetings. If you cannot come to the meeting, and would like to borrow a video or book, call Ken Antonellis at **(508) 653-4513**.

Videos:

1996 World Masters Aerobatic Championships
AMA – The Pioneers (25 min)
Byron – New Generation of Modeling Products (17 min)
Byron – R/C Wars

Combat Models – Fighter town Demo (8 min)
Coming of Jets & History of the DC3
Dynamic Soaring
Elmira '97
Endless Lift
Hot Stuff Video (60 min)
Local Flying (Medfield)
Military Aircraft
Monokote 1 & 2
Old Buzzard Goes Flying
R/C Helicopters
R/C Info and Tips
R/C Ornithopter Research
Project R/C Soaring from the Ground Up

R/C Video Magazine, Vol. 1-13
Scale Aircraft Documentation
The Light Stuff (Daedalus Project)
Wring It Out, Vol. 2

Books:

1993 Don Edberg Complete Source Book
AMA – Sound and Model Aeronautics
Aviation Heritage Magazine – B2 Flying Wing
Completely Cars – Harry Higley
Trainers (R/C Magazine)

TREE CLIMBERS

Tony Morais

A1 Tree Services-
Framingham, MA
508-626-0088
800-657-7788

Brian Pikarski

Burlington, MA
617-797-2136

Kenny Greeno

Office Phone: 617-661-8591
Cell Phone: 617-201-5300

Paul Harrington

(508) 376-2573 [Medfield Area]

ELECTED BOARD MEMBER RESPONSIBILITIES:

PRESIDENT:

- Chair membership meetings
- Chair board meetings
- President's column to newsletter editor by FIRST FRIDAY of each month.
- Responsible for interactions with the community and getting us new flying sites.

EX-OFFICIO/ RAFFLE CHAIRMAN:

- Prizes
- Obtain prizes for raffles
- Run the raffle during general meeting This position is open to "senior members" someone who has been in the club for more than 5 to 7 years. This individual ensures traditions are passed on, that the rules are interpreted as they were written (and meant!), and helps clarify any miss understanding.

VICE-PRESIDENT:

- Assist the president as requested
- Run general meetings in president's absence.
- Find and coordinate speakers and topics for membership meetings (board discussion to decide speakers and topics, but VP is responsible for 'making it happen')

MEMBERSHIP SECRETARY:

-Process CRRC applications on a continuing basis. When applications come in, check that the form is complete, the proper fee is enclosed and a copy of the AMA card is included. In some cases, a copy of a confirming message from the AMA is enclosed, but the AMA number has not yet been assigned. In other cases, an AMA number is given on the application form, but no copy of the AMA card is enclosed. In these cases, call Lois at the AMA (1-800-435-9262, xt 291) to check on the AMA number or whether the AMA membership is current.

-Each year, generate an EXCEL spreadsheet with sequential entry of applications and amounts received as they arrive (e.g., CRRC Membership 2001). Assign CRRC membership numbers on a sequential basis. For all new members who joined between October 1 and December 31, put their names on the spreadsheet for the following calendar year and assign new membership numbers. Send them new membership cards. Supply an updated copy of this spreadsheet to the treasurer along with recently received membership fees (checks or cash).

-Fill out a CRRC membership card and send it to the applicant. If someone overpays, route the envelope containing the card

through the treasurer indicating the amount of overpayment. For all club officers, have them fill out the application form even though no fee is required. Fees are also waved for Fritz Bien and Jesse Heftner.

-For a new member, put the card in a vinyl badge holder with an attached message welcoming him to CRRC. Order new badge holders from G. G. Tauber Co. (301-881-3567), as required. Also, send new members a copy of the latest CRRC handbook. Send new CRRC handbooks to all members when the handbook is significantly revised.

-Maintain the master CRRC membership spread sheet (e.g., CRRC 2001.xls). Generate a new spreadsheet for each calendar year by re-titling the previous year's spread sheet and updating the information as it arrives.

-Update renewals and insert new members in the spreadsheet. Soon after the beginning of each month, send an electronic copy of the master membership spreadsheet to the members of the board of directors (including the chief instructor and the web master). Also, send a copy to the manager of the CRRC email list (in 2003, Dave Walter).

-Periodically, send a "Club Roster Form" to the AMA indicating additions and deletions from the CRRC membership. The AMA requests monthly updates.

-Maintain the hard-copy file of CRRC correspondence and applications: Also, maintain an archive of other CRRC related material including AMA information and newspaper articles.

RECORDING SECRETARY:

-Write Meeting Notes from the General Meeting and relevant items from the B.O.D. meeting by FIRST FRIDAY of Month.

TREASURER:

-Maintain bookkeeping for club funds Reconcile accounts regularly to ensure accurate financial position information.

-Report on profit/loss on a per-even basis throughout year Monthly treasurer's report to newsletter editor by FIRST FRIDAY of each month.

NEWSLETTER EDITOR:

Produce monthly print newsletter.

- Locate/select content
- Create format, Editing as necessary
- Create mailing labels.

-Coordinate mailing of monthly newsletter so that members receive newsletters by the 2nd Wednesday of each month (this gives people about one week to think about attending the meeting.)

-Send copy of monthly newsletter for web posting

NON-ELECTED BOARD MEMBER RESPONSIBILITIES:

FIELD MARSHALL:

---Ensure adherence to AMA safety guidelines at fields Check conditions of fields, and report issues at meetings

CHIEF INSTRUCTOR:

---Coordinate instructors for new flier training Set instruction standards for club instructors Coordinate newcomer training activities as appropriate.

WEBMASTER:

---Maintain web site
---Troubleshoot technical issues as necessary Update event calendar and next club meetings calendar Add relevant content using appropriate editorial standards to uphold and project a positive club image

MEMBERSHIP STATISTICS.

Here are the updated CRRC membership figures. The table summarizes the membership status, and compares recent years.

Year	Renewals	New Members	Peak Totals
1999			135
2000	112	62	174
2001	124	50	174
2002	138	58	196
2003	156	37*	193

*The 37 new members include 32 genuinely new members and 5 members who rejoined after a lapse of a year or more.

I will send out an updated membership list around the first of each month.

--Dick Williamson



THE CHARLES RIVER RADIO
CONTROLLERS, INC
AMA Charter 339

Annual Hobby Auction

Drinks

SUNDAY, NOVEMBER 16, 2003

Hot Dogs

VFW Hall, Natick, MA

Set up and Viewing Noon to 1:00 PM

Auction 1:00PM to 3:30PM

Directions: From Rt. 9 and Mass Pike, exit at Speen Street towards Natick. Turn Left on Route 135. VFW Hall is on the left about 400 yards along Rt. 135.

All Modeling items auctioned

Come buy and sell:

Engines Radios Models Kits Tools



**\$1.00 Entrance fee includes raffle ticket for a new
4 channel radio system.**

(additional raffle tickets \$1.00 or 3/\$2.00)
CRRC receives 10% of proceeds from all sales.(\$10 max)

Cash only PLEASE! No private sales.
Seller may refuse sale at no cost



THE CHARLES RIVER RADIO CONTROLLERS, INC

2004 MEMBERSHIP APPLICATION

AMA Charter 339

THIS FORM EXPIRES ON MARCH 1ST 2004!

Name _____ AMA No. _____

Street _____ Birth Date (AMA req'd) _____

Town _____ State _____ Zip _____ Tel. () _____ - _____

E-mail _____

I PREFER TO RECEIVE MY NEWSLETTER

☐ **ELECTRONICALLY**

☐ **Via the US Mail**

☐ I DO NOT want my address to appear in the club phone book

To receive membership card and field pass, bring this application to a club meeting, or mail with a copy of your Year 2004 AMA LICENSE, appropriate dues, and a **SELF ADDRESSED STAMPED ENVELOPE** to:

Dick Williamson /Secretary CRRC
P.O. Box 398
Lincoln, MA 01773
Telephone 978 443-8549
E-mail: williamson@ll.mit.edu

REMEMBER THE MARCH 1ST DEADLINE!	Renewal before March 1st
OPEN Member	\$30.00
JUNIOR member, (under 19 before 7-1)	\$15.00
SENIOR member, (if age 60 before 7-1)	\$20.00
full time STUDENT	\$15.00
Family member additional to OPEN membership	\$15.00
There will be a \$5.00 penalty for joining AFTER March 1st	

I'M INTERESTED IN THE FOLLOWING:

- ☐ TRAINERS/SPORT PLANES
☐ GLIDERS
☐ INDOOR/PARK FLYERS

- ☐ ELECTRICS
☐ HELICOPTERS
☐ SCALE

- ☐ PATTERN
☐ RACING
☐ GIANT SCALE

☐ **OTHER** (specify) _____

FREQUENCY DATABASE

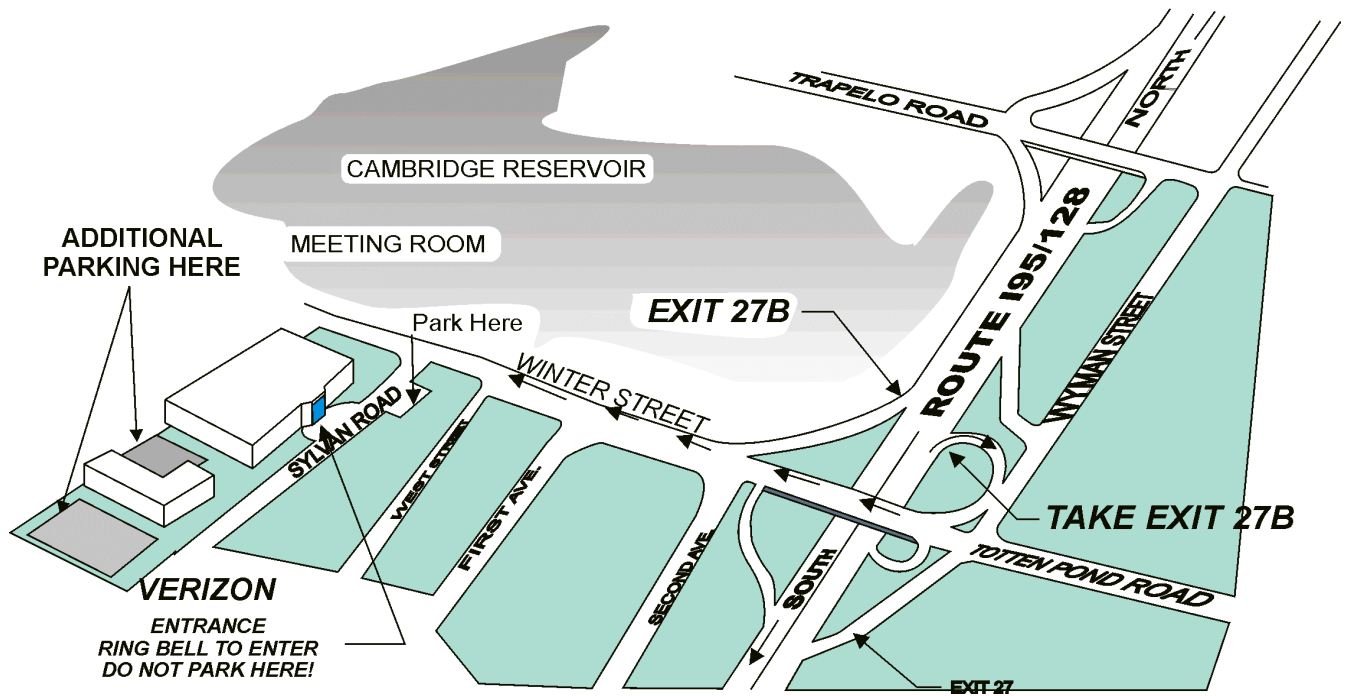
This database is made to help you select future radios that have the fewest conflicts with ones used by others at the flying field. Put the number of transmitters that you own for each frequency. **Add D** if it is your primary frequency at Davis and M if it is your primary at Medfield.

11> _____ 16> _____ 21> _____ 26> _____ 31> _____ 36> _____ 41> _____ 46> _____ 51> _____ 56> _____
12> _____ 17> _____ 22> _____ 27> _____ 32> _____ 37> _____ 42> _____ 47> _____ 52> _____ 57> _____
13> _____ 18> _____ 23> _____ 28> _____ 33> _____ 38> _____ 43> _____ 48> _____ 53> _____ 58> _____
14> _____ 19> _____ 24> _____ 29> _____ 34> _____ 39> _____ 44> _____ 49> _____ 54> _____ 59> _____
15> _____ 20> _____ 25> _____ 30> _____ 35> _____ 40> _____ 45> _____ 50> _____ 55> _____ 60> _____

HAM LICENSE CHANNELS: license may be checked at the field!

01> _____ 02> _____ 03> _____ 04> _____ 05> _____ 06> _____ 07> _____ 08> _____ 09> _____
53.1> _____ 53.2> _____ 53.3> _____ 53.4> _____ 53.5> _____ 53.6> _____ 53.7> _____ 53.8> _____

LOCATION OF MONTHLY MEETING
FOR THE CHARLES RIVER RADIO CONTROLLERS
at VERIZON LABS



Michael Cormier / Editor
48 Bacon Street. # 8
Waltham, MA 02451-4349