

The Flight Box



Up to the minute weather at the airfield

Letter from the President

November 2016

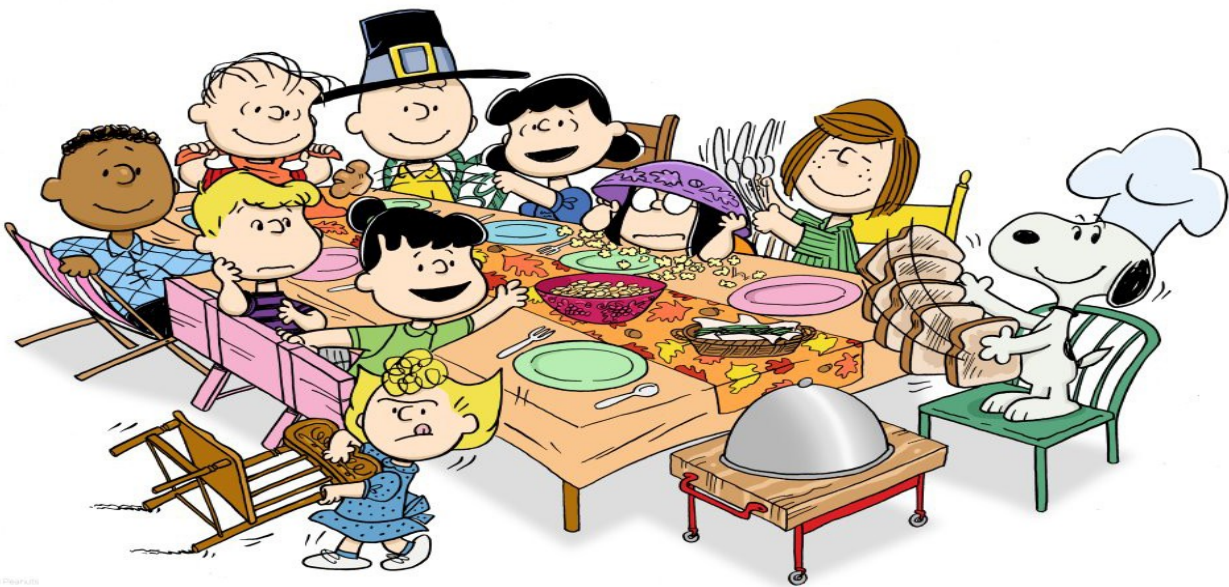
Wishing You All

An Awesome

Thanksgiving Holiday

With Your Loved Ones

...



~
Gary Jordan
RVRC's President

Minutes of the General Membership Meeting

Meeting called to order: 7:00pm

- 10 members present, 0 junior member (s), 0 Associate, and 1 guests
- a quorum (19) was *not* met

Guests:

- Carl Lorber – Sail-Plane expert and designer. Former member of RVRC ~ Glad to see you Carl !

★ *Please give him a hearty welcome the next time you see him at the field*

Reminders:

- ★ *You must be a Member in good standing, aircraft labeled with FAA & AMA numbers, along with dues current with the AMA & RVRC to fly at RVRC's Airfield !!!*
- ★ *THERE IS A NEW FIRE EXTINGUISHER IN THE SHED & RESTOCKED FIRST-AID KIT*
- ★ **REMINDER THAT YOUR AMA Membership expires at the end of December; please renew before the Holidays.**
- ★ **Dan Quinn with Summit has hung NO TRESPASSING signage , due to our recent event with the outside gate key reader from a stranger in a RV entering our open gate during the Labor Day Cookout Festivities, which demolished the post and reader. And along with with the recent vandalism during the weekend of Wings Over Salem has lead Summit to hang signage on the exterior of the fence. There is to be no one on their land with out the express consent of Summit and we are to remind people that if they are not a club member that this is private property and they need to vacate the premise. If you do see someone please be courteous and explain to them that with the previous owners this land use to have a public access but due to the vandalism of recent that this is no longer the case.**

-Post – Ops from War-Birds Over Salem:

★ Due to the Windy Day and the event turn out, even though it was a reasonable attendance, the BOD didn't feel we could recoup our cost, therefore we did not hold a raffle nor give away any of the prizes other than award of the trophy's for:

- ★ Best Overall War-Bird was awarded to Joe Reynolds
- ★ Best Fuel Powered War-Bird was awarded to John Alexander
- ★ Best Electric Powered War-Bird was awarded to David Vietmeier
- ★ Bombshell Memorial Warbird was awarded to Dave Reynolds

[a special thank you to Chuck Gillespie for photographs of the event ~ see November newsletter](#)

Announcements:

★ **-The Board Of Directors DID meet with Summit**, on the 14th of October, and the details will be discussed in the December General Membership Meeting. We left with a good repertoire with John and Carl Milko, Dan Quinn and John Reed. Basically they are happy with our club, who we are, our community involvement & ***"we look forward to a long lasting relationship between Summit Helicopters & RVRC"***.

★ **-Elections of Board Officer for the new year will be held at the December General Membership Meeting ... your presence is requested as a Quorum is needed to vote these people into office.**

★ **-Christmas Parade Float**, we will be entering a float this year in the Salem Parade on December 2nd. Gary Jordan will be building the Float on the Friday following Thanksgiving & David will be decorating the following Monday, the 28th, ~ if you can help please attend!

★ **UPDATE:**

A special thanks to:

Mike Fetz, Don Hepler, Larry Marsh, Bill Morgan and Gary Jordan for building the float !

... and to:

Derrick, Jamie, Bryson, Jordan, & Olivia Smith along with David Vietmeier for decorating the float!

Treasurer's Report

Prepared by Jim Bowen ~ RVRC's Treasurer
for the month of
October

RVRC Treasurer's Report for October 2016
Prepared November 7, 2016.

Checking Acc't	\$7,052.30
Money M'kt Acc't (as of Oct 31, 2016)	<u>\$34,763.31</u>
Total funds:	\$41,815.61

Income/Expense by Payee - Oct 2016

Checking Account	
10/1/2016 Beginning Balance	\$9,073.10

DEPOSITS

10/8/2016 New member dues and name tags	105.00
	<u>105.00</u>
Deposits, total	\$105.00

EXPENSES

10/1/2016 - 10/31/2016

Payee:		FOR:
10/3/2016 William E. Morgan	368.01	RVRC patches
"	39.99	trash cans
10/3/2016 Bruce Davidson	52.71	materials for storm door repair
10/8/2016 Lowell's Lawns, Etc.	675.00	Sept. mowing and trimming
10/10/2016 Crossroads Hobbies	470.00	prizes for Warbirds Over Salem
10/10/2016 Jameco Electronics	113.83	Items for Aircraft Warning Alert System (AWAS)
10/10/2016 Marc's Deals (eBay)	89.99	Beacon light for AWAS
10/15/2016 Walmart	39.47	Supplies to replenish first aid kit in club house
10/15/2016 Lowe's	11.43	Beacon mounting hardware for AWAS
10/21/2016 City of Salem	10.00	Monthly dumpster lease fee
"	57.80	Electric utility bill
10/21/2016 Northwest Hardware-Salem	20.09	AC outlet strip & plugs for AWAS
10/22/2016 Dave's Moonwalks & More, Inc.	177.48	Bounce House for Warbirds Over Salem
TOTAL EXPENSES	<u>\$2,125.80</u>	
10/31/2016 Closing Balance	\$7,052.30	

Old Business:

-Discussions being held on field improvement:

- Something to be done for reduction of dust under canopies.
 - Additional Canopies to be put at West end of field by single canopy.
 - Paved runway improvements ~ repair cracks & dips in order to make it more level.
- ➔ If you have any concerns or ideas please bring them to Bill Morgan
 - ➔ SUMMIT agrees with our field improvements and gives their blessing to proceed ~ all they as is *advanced* notification before activities begin

-Early Warning Alert System (EWAS): UPDATE

- Jim Bowen reports that: The Aircraft Warning Alert System (AWAS) is now installed and appears to be functional at RVRC. Many thanks to Rick Littleton, Jim Lewis, and Mike Fetz for helping with the installation.

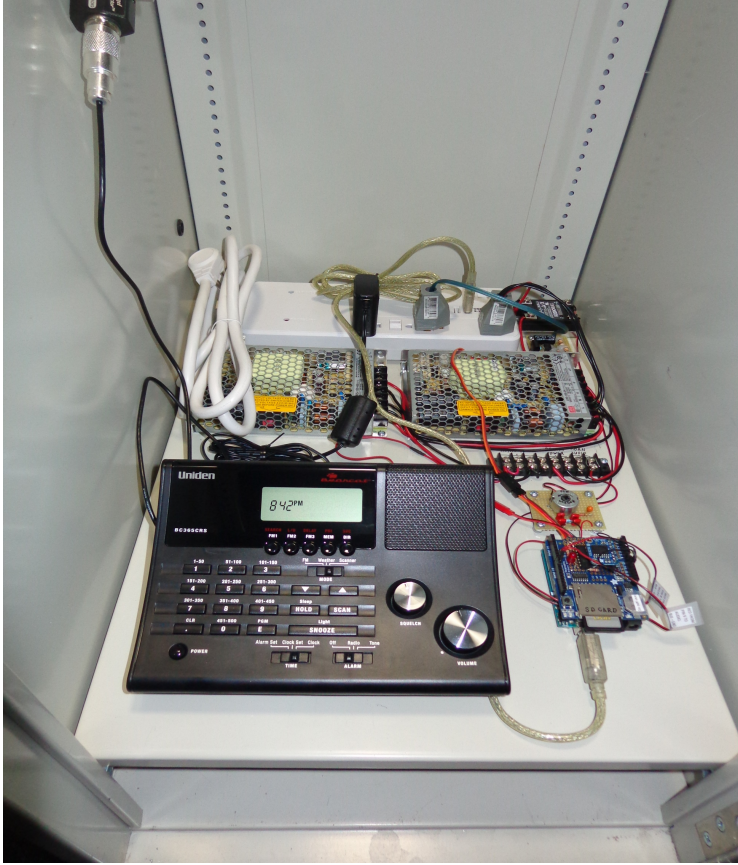
- **When an incoming manned aircraft pilot triggers the system by radio, a flashing red beacon light is illuminated. The beacon is located on a pole at the fence beside our RVRC runway. The beacon can be activated any time of the day or night and will continue to flash for ten minutes once triggered. If the system is re-triggered while the beacon is flashing, the timer is re-set to end ten minutes past the latest re-triggering, extending the beacon time.**

- **During the day, from about 8:00 AM local time until a few minutes after sundown, an audible alert is also triggered at the field when the beacon is triggered. The audible alert is an alternating high-low tone that lasts for 15 seconds, is silent for 45 seconds, recurs for 10 seconds, is silent for 50 seconds, recurs for 10 seconds, then remains silent, unless the system is re-triggered.**

- **The beacon and audible alerts tell our model aircraft flyers to land immediately, as a manned aircraft is approaching with intention to land. We hope this system will improve safety at the field. Our members must remain vigilant for manned aircraft, however, because not all the Summit helicopters have radios. Our members need to land immediately whenever a manned aircraft approaches the field, whether or not the AWAS system is activated.**

- The system also keeps a log of the times of the alert events, to help in diagnosing any problems that may occur.

Old Business (con't):



-**Approach Flight Pattern** we have details on an approach vector and fly by from Summit's meeting~ details will be discussed at November's General Membership meeting so we, as a club, are aware of Summit's pilot's intentions.

- ➔ Summit's Flight Operations is bringing in a Cessna 182 as pilot transport vehicle and it will now be housed in the Hangar that Al James use to house his C182. This plane will frequent the field more often. ***As a reminder when you see any FULL SCALE aircraft on approach please land immediately !!***

-Discussions on Aircraft Sound Testing:

Only one plane that has broken the sound barrier; large Giant Scale plane that was at 98 db under old regs was within limits now 2db over new limits. Pilot agreed to put a three-bladed prop to reduce noise. The BOD appreciates his cooperation.

➔ President Jordan reminds us that there are things we can still do as pilots to help improve our sound from the planes ... examples of different types of mufflers and multi-bladed props other than the traditional two bladed type. Not only with these different style of propellers will you reduce the noise but you can increase your speed also.

➔ Also a BIG THANK YOU !!! The President and the Safety Committee has observed that everyone has moved there flight pattern more to the West end of the runway which has reduced the sound to the area of the concerned neighbor !

Old Business (con't):

Muffler for combustion engines [Mile High RC Mufflers](#)

- ***Ways of abating noise problems from the AMA***
 - Try a three-blade propeller. The most important thing to remember about airplane noise is most of what you hear does not come from the engine, it comes from the propeller. What you hear when your engine unloads in the air are the propeller tips going supersonic, so getting the engine rpm down will limit much of that. So you think a bigger, two-blade propeller will slow the engine down, resulting in lower noise, right? Wrong! Yes, it will slow the engine down, but now you have longer blades and the tips are actually going faster (physics). The answer is to add blades so you can keep the diameter down while also reducing the rpm. The reason you see most of the big International Miniature Aerobatic Club (IMAC) fliers now using three-blade propellers is not for performance, but noise control. If you don't know how to figure for a three-blade propeller, ask your engine manufacturer for a recommendation. A rule of thumb is to reduce diameter or the pitch by one inch or both if needed.
 - Use as large as possible "canister-type" muffler. Nearly all engines, glow and gas, sold in the US market today are supplied with a large can-type muffler. Most of these supplied mufflers will adequately control the combustion noise coming from the cylinder. After-market mufflers will do a better job of quieting the engine, so look for those.
 - Soft mount your engine. There can often be quite a bit of noise coming from your airframe, especially if it contains a lot of fiberglass or is an open structure covered in plastic film. When the engine is hard mounted to the firewall, the vibration will be carried back through the airframe and essentially act as a drum unless there is some type of absorption material in there to soak it up. Many of the newer 30% and 40% aerobatic aircraft have foam turtledecks and other foam parts that absorb much of the vibration noise. If not, your beautiful machine will sound more like a drum kit than a purring kitten. There are several soft-mount systems on the market. To my knowledge, all full-scale piston engines are soft mounted.

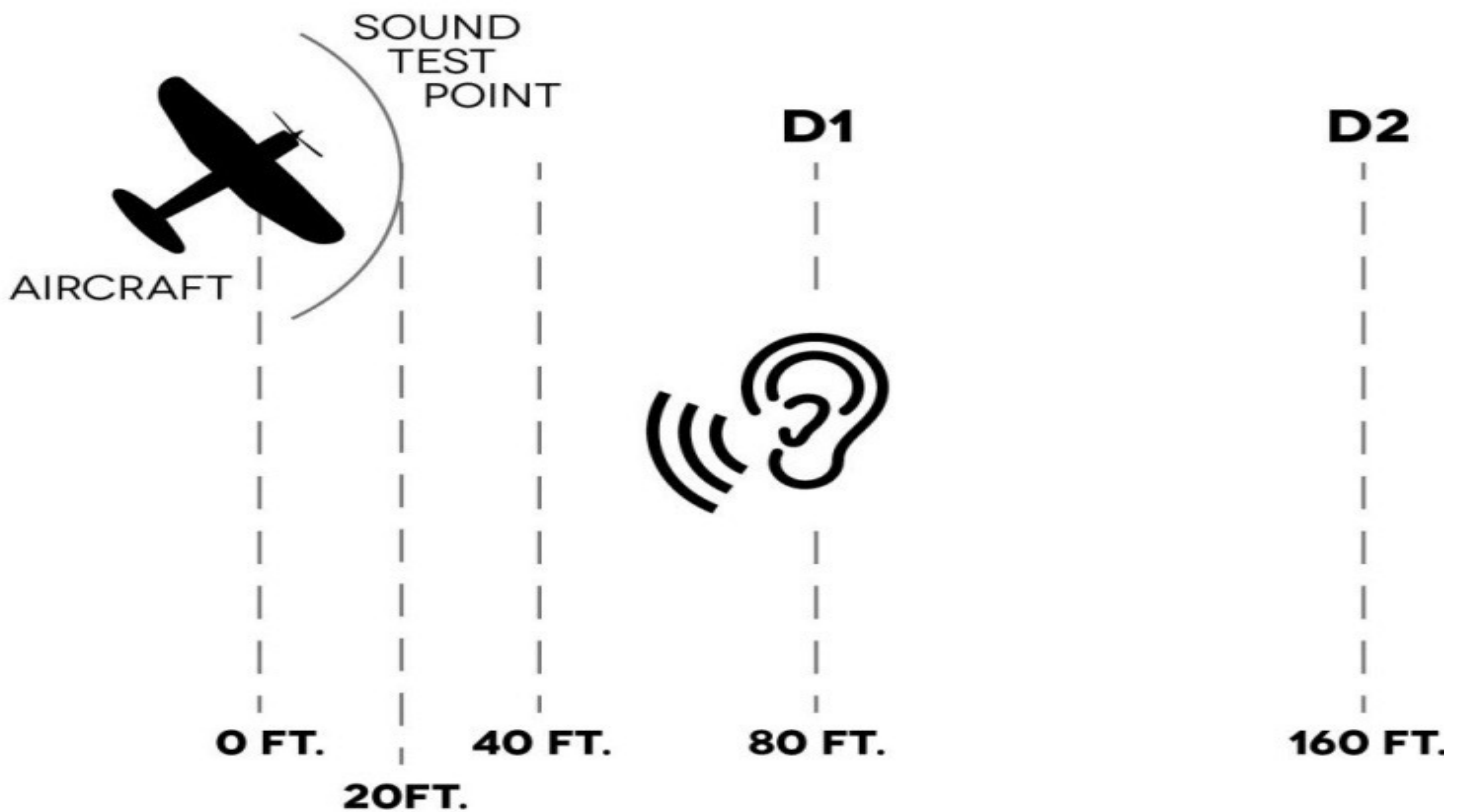
New Business :

-**Summit Helicopters**, has confirmed that operations will be in full swing by December however, they may not be completely moved in the facility across from our clubhouse during at that time. They have their Certificate of Occupancy as of the end of September. **REMEMBER there will be a lot more activity out here and on the flight line. REMINDER ~ IF YOU SEE A BIRD OF ANY KIND (PLANE OR HELICOPTER) OR IF YOU SEE ANY PEOPLE ** DO NOT FLY !!!**

◆ **PER THE PRESIDENT AND THE BOARD OF DIRECTORS**, have mandated that we do not want to put an aircraft down anywhere near Summit's employees nor their equipment !!

Sound Table
Sample Noise Test at a Local Flying Site

Distance (ft)	Sound Pressure (dB)
20	96
40 (double the 20' distance)	90 (reduction of 6dB)
80 (D1)	84
160 (D2)	78
320	72
640	66
1280	60



-Models of the Month: none presented

-Meeting Adjourned: 7:19 PM

**Let's keep in mind that it's Summit's land & we are stewards of their property.
It is a privilege to be here, therefore we need to respect their wishes and demands.**

-Items of Interest:

Newsletter Submission Date Change; Secretary has moved date to 2nd Monday of the Month preceding publication to enable an earlier and more timely distribution of the newsletter to the General Membership. Office of the Secretary's goal is to have the Newsletter presented and posted to the website with in 7-10 days after the monthly General Membership Meeting.

-The creation of our [FaceBook Page](#) has now over 67 members strong and still growing. That's 3 new members over last month !! The BOD feels that highlighting club events along with club members aircraft builds, tips, tricks, and techniques is a positive support for our members, the sport and our hobby as a whole. Reminder this is a closed page and you must ask to join and Gary, Derrick, or David will admit you as they are Admin Users.

-Night & Day Fun Fly's – if you have dates or types / styles of fun fly's please start a forum post on RVRC's website & [FaceBook Page](#) and please notify [Board via email](#) of your interest.

-FAA registration of our members **is required**, **ALL** members should be registered at www.faa.gov/uas/registration . Once registered pilots will receive a Federal registration number that is to be placed on or within aircraft over 250 grams (0.55 lbs.). Members are encouraged to continue placing their AMA numbers on their aircraft as well. Members only have to register once, they do not have to register each unique aircraft. The FAA requires registration regardless if you fly a multi-rotor, helicopter, fixed wing, or any other type of radio control model aircraft that uses a ground control system with a communication link, such as a transmitter.

-Renewals for year 2017-2018 ~ BOD will be planning on implementation of payments on-line via PayPal and renewal registration & new member registration on our RVRC's website. BOD is currently in planing and development stage of this undertaking, however it is our goal to have this in place and ready for implementation for next March / April time frame.

★ *Please understand this is a work in progress for the renewals ~ we are trying to make it easier for you*

Safety Highlights:

-Safety Committee Reports:

- ▶ **It doesn't matter if anyone gives you permission to fly and they're on the field DO NOT FLY as this is a liability issue !**
- ▶ From *RVRC's Safety Code* ... section **VI. GENERAL**
 - M.** *If a member is found to be in repeated violation of the AMA and RVRC Safety Codes, the member shall, at the discretion of the Board, having flying privileges restricted and/or brought before the general membership for a vote on expulsion from the Club.*
 - N.** *The field is normally open for flying every day of the week except Sunday morning. No gas or glow powered models may fly until after 12:00 noon on Sundays only. Other scheduled events may close the field to general flying. Every effort will be made to give the RVRC membership advance notice of the field closing for whatever reason.*
 - O.** **Flying is to cease when the lawn service is mowing the field or the hay cutters are inside RVRC's normal operating area.**
- ▶ **This applies to any persons on the airfield during all times !!**

-First Aid Kit

- ★ Due to recent events at our field we are moving the First Aid kit to the Shed under lock ... all members should have combination to the shed; if needed please see a Club Officer
- ★ We want everyone to be safe ... and *please* by all means use the items that you require for minor First-Aid but ***please*** let a Board Member and the Safety Committee know if something is used so that we can replenish it and have it available for the next member

Please by all means let a Board Member and the Safety Committee know if something used for the health and well being of our members needs to be corrected.

Safety Highlights (con't):

- **Do not** use DSM2™ receivers in your aircraft !
- Be mindful of spectator's locations and their safety at ALL times.
- All members *please* review the [Safety Code](#) (**WEBSITE HYPERLINKS IN BLUE**) in its entirety.

★ We've had many members ask, who have been at the airfield during the week mid-day ... so *please* review the above link as it is stated what the proper procedures are to be followed in certain cases !

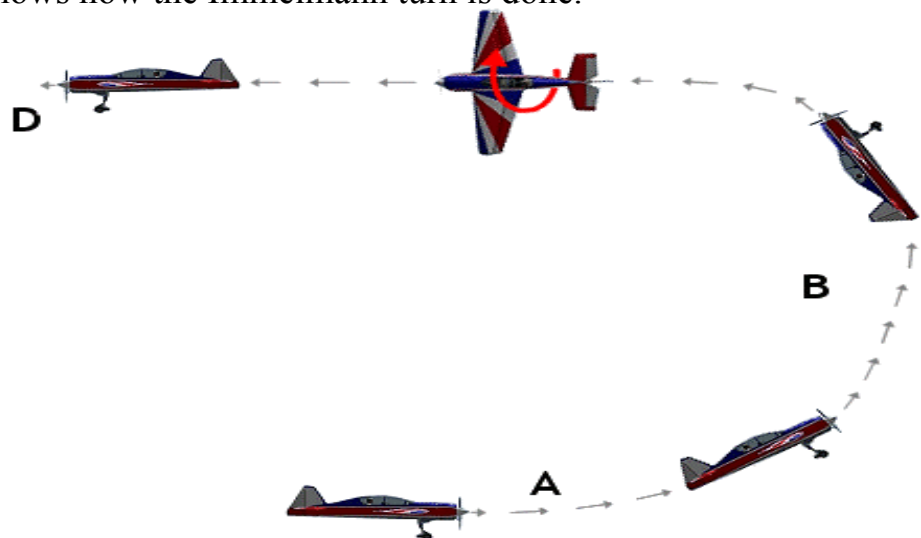
★ If there is **ANY full scale aircraft or personnel on the field then there is to be NO R/C FLYING AT ALL !!!!** This includes: Summit personnel, Mowing Crews, Salem Utilities, Salem Waste Disposal and dump truck, Port-A-John personnel and tanker truck. *It doesn't matter if they give you permission to fly and they're on the field DO NOT FLY as this is a liability issue.*

▶ ***Large War-Birds and Jet Pilots especially*** , but all pilots should, start practicing using an Immelmann Turn at the East End of the Field and Runway strip. This should be performed now so as to keep all R/C Aircraft away from the Cessna C182 Hangar and away from ALL buildings.

▶ If you don't know how to perform this maneuver ... it is explained below:

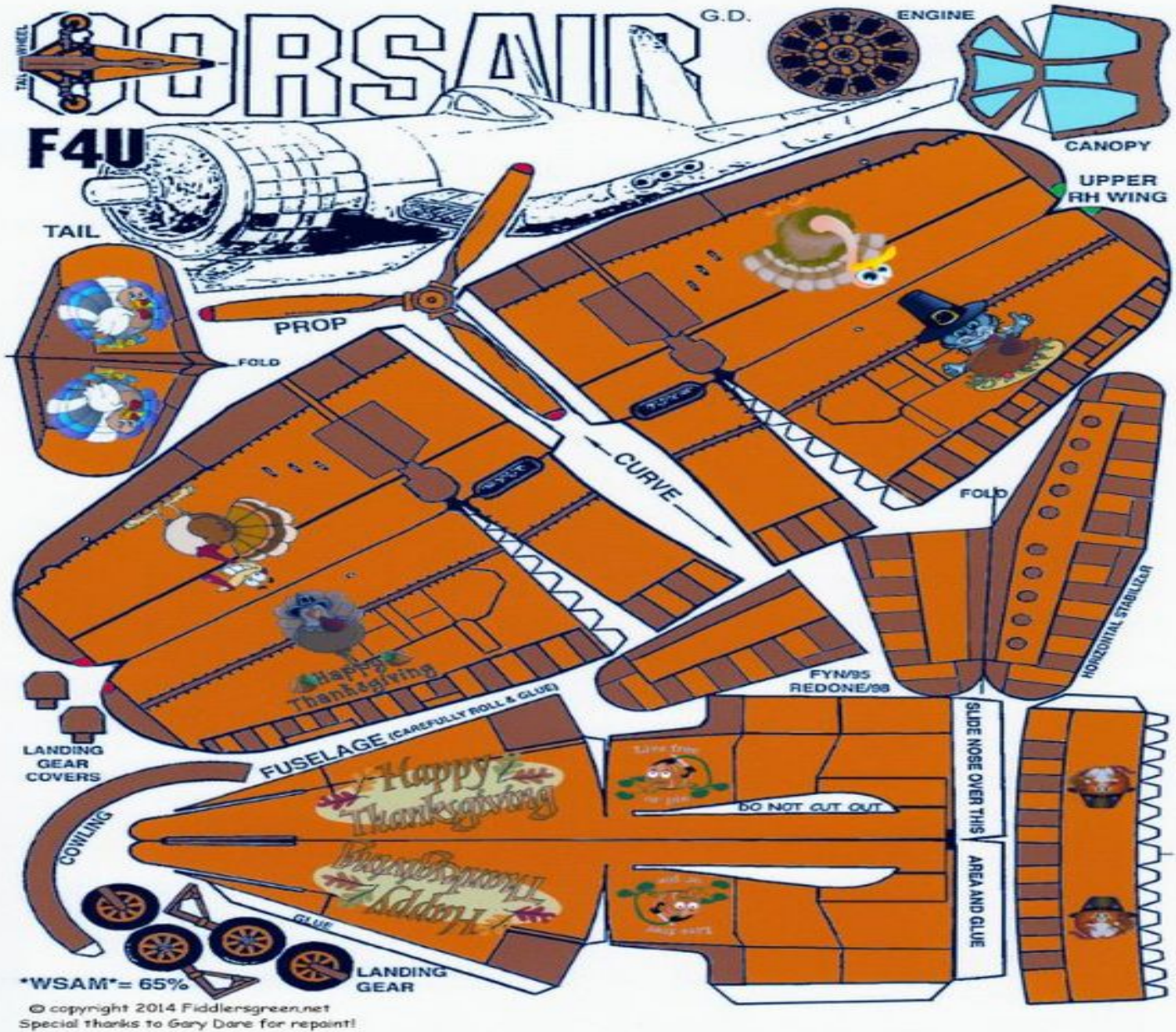
- Fly the plane straight on level flight **Step A**
- Start with 90 degree half-roll climb up using up-elevator until the plane is head back to the opposite direction **Step B**
- Keep the plane in straight and level inverted flight.
- Half-turn the plane to a normal flying position using aileron, you will now be heading opposite to the first direction but gaining higher altitude. **Step D**

➤ This picture shows how the Immelmann turn is done.



➤ **Pro Tips:**

- * When you are comfortable with this maneuver, start matching the speed of the half roll to the height of the half loop . If your roll is short, slow down the half roll to add symmetry to the two components.
- * A tight half loop will make the maneuver much smaller but will provide greater exit speed!



Roanoke Valley Radio Control, Inc.

Gary Jordan	588-9969	President
Derrick Smith	(832) 472-5636	Vice-President
Jim Bowen	389-4243	Treasurer
David Vietmeier	314-8421	Secretary & Newsletter Editor

Bruce Davidson	384-6760	Member at Large
Richard Alexander	204-8767	MAL & Safety Chair

Bill Morgan		Field Maintenance Chair
Jeff Stubbs	cd@rvrc.org	Contest Director
Mike Fetz		Safety Committee Member

\Flight Instructors please contact the Board at: board@rvrc.org

The RVRC holds regularly scheduled meetings on the 1st Monday of each month at the field in Salem.

Submissions to the newsletter are welcome & encouraged—especially any tips or hints to help fellow modeling enthusiasts. Items wanted to buy, or for sale, are also welcome.

Please mail information to:

RVRC
Office of the Secretary
P.O. Box 241
Salem, VA. 24153

Or send your correspondence electronically to:

secretary@rvrc.org

DEADLINE IS THE 2nd Monday OF EACH MONTH PRECEDING PUBLICATION

Next RVRC meeting Monday, *December 5th, 2016,*
at 7PM ~ RVRC Clubhouse & Airfield