



OMAHA NEBRASKA  
AMA 857

## TAILSPIN NEWSLETTER

April 2016 Issue

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### A Word from the President



Greetings: Western RC Flyers

Well spring has sprung, the grass is green and the temperature is getting warmer. So it's time to get the planes dusted off and batteries charged.

The Mowers are ready to go, the field has been mowed and holes filled, could use some help with additional hole filling. If you have some left over ice melt salt you want to get rid of, please put it directly under the orange fences in the pits. It really keeps the grass at bay when applied under the fences.

I called the portable toilet company and the porta potty should be on site shortly. The Field has been ROLLED, thank you **Mike Lawver**. Some minor fence repair is still ongoing.

*SO WE SHOULD BE READY TO GO FLYING FOLKS!* But would anyone consider volunteering to assemble some more flight tables????? We have parts for a couple in the mower building. Let me know as we could use a couple more stands.

**~ Time to send in your Dues if you haven't already done so. Thanks for your Support. ~**

### Next Meeting:

7:00PM Tuesday July 12, 2016

**Mead Field**



I thought there might be a conflict with the *Sig Fly-in* this spring. However there doesn't appear to be an issue for us. As the *Sig* event is on June 11<sup>th</sup> and our flying event is on the June 18<sup>th</sup>. There is a conflict with the Grand Island modelers' event on June 17 - 19<sup>th</sup>. If you have Comments Questions or Suggestions reply to me at ([millerrick7@gmail.com](mailto:millerrick7@gmail.com)). I encourage email communication as currently our club as a group has few meetings.

See you at the field!

Rick Miller President WRCF

Email [millerrick7@gmail.com](mailto:millerrick7@gmail.com)

cell/txt 402 510 6714 (TEXT PREFERRED)

Thanks!

~ Rick Miller

## Vice-President's Corner



Our April meeting was a little short of people again. Rick Miller and I had a good time flying because the wind died down and made for some good flying. I've been out several times flying and am looking forward to a good year. I test flew my new Pulse and it flew fine. Let's see some people out

flying this year so I can have more to write about. Keep them flying.

**Keep Building and Flying!** ~ Rick Haneline

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## April 2016 Treasurer's Report



As of April 1st we have 28 paid up members for the 2016 season. Renewals continue to trickle in and I do remind you all to continue to send them in as early as possible, thank you.

Expenses consisting of AMA charter, field equipment insurance and stamps for the months of January, February, and March amounted to \$259.60 total.

**Your Treasurer** ~ Dean Copeland

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## April 2016 Meeting Minutes



Meeting called to order by President Rick Miller 7:00 PM. (5) WRCF members present. Rick indicated there is a need to take minutes for the quarterly meetings. Tim Peters agreed to do this.

Rick discussed the change in meetings. It was moved, seconded, approved that WRCF meetings be held at the Mead flying site (3) times a year. The 4<sup>th</sup> meeting will be held indoors during the winter months. It is possible that the remaining 2016 meetings may be held near the end of June and September so as to maximize flying time during the meeting dates. (It is thought that the planned October meeting date may not provide as much flying opportunity.)

Regarding upcoming WRCF events. There may be a conflict in dates with the annual *Sig Fun Fly* and a meet at Grand Island. May 28 is the scale/swap event, June 18 is the annual WRCF club fun fly. There is a need for volunteers to coordinate the events. Rick to send email requesting assistance with the upcoming scale and club fun fly.

Conditions of the field were discussed. Rick has installed batteries in the mowers, there are (3) operational. One needs a battery replacement; Leroy Konecky will check into whether he has a spare at his shop. There is an additional mower that is not working; it is the 'tan Craftsman' unit. Thanks to Leroy for his assistance with mower maintenance. Rick talked about getting the field 'rolled'. Mike Lawver has volunteered to do that task. The field is very dry and may not benefit from rolling at this time. The University has provided some black dirt and many of the existing holes have been filled. Rick suggests that club members bring a bucket and shovel when they come to fly and spend a few minutes locating and filling holes. Also if anyone has leftover 'snow melt' salt, bring it and apply it to the areas underneath the plastic fencing. That has proven effective at keeping down grass and weeds around the safety fence.

It was asked whether the porta-potty will be available in April. Normally the club arranges for this service from May through October. It was also suggested that we look into the additional cost for a 'handicap accessible' porta-potty. There are two WRCF members that would benefit from this.

Meeting adjourned at 7:20 P.M.

Show-and-Tell: Tim Peters brought his small QQ5 video camcorder and described its operation. Look for an article in this issue of WRCF *Tailspin* newsletter about the QQ5.

**That's it!** ~ Tim Peters

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## Adjustable Walker-Stand

By Rick Haneline



~ April Old Timers' Fun Fly 16<sup>th</sup> ~

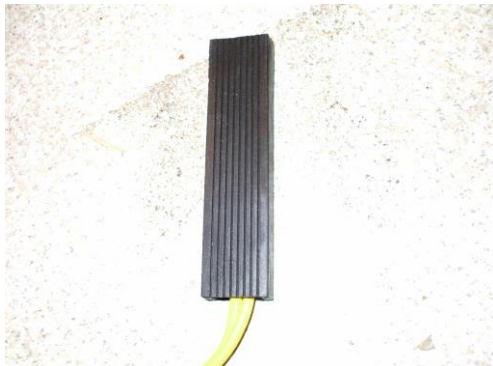
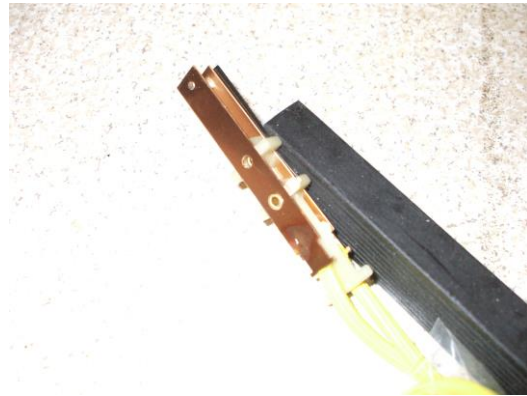
# Starter Revived

Report by Tim Peters



Attached are some photos of my 40+ year-old *Sullivan* starter. I have had really good luck with the starter; it's powerful and rugged. At the end of the 2015 flying season I noticed that the starter's grip switch had finally worn out. At best it was intermittent and often it wouldn't work at all. Over the years I had acquired a 'Brand X' starter which was new-in-box and was planning to replace the *Sullivan* with it. However when trying it I noticed that it didn't have near the torque as the *Sullivan* and was not going to cut it. Searching on line for a new *Sullivan* was a real eye-opener.....\$85!

So I started wondering if replacement parts were available. Sure enough, *Sullivan's* web site showed that I could purchase just the switch and a new cable assembly. A quick phone call and the parts arrived within a week or so. The photos show the disassembly process; there are only two screws on the back plate to remove. I used wire cutters to remove the old switch, stripped the insulation from the old wires and attached the new switch using the existing 'wire nuts'. I also replaced the yellow cable and soldered it into the existing clip leads. The most challenging part of the project was getting all the wiring to fit back inside starter's back plate. So for about \$15 and an hour's time, my old *Sullivan* starter is recovered from surgery and ready for many more flying seasons!



# Building Up-North Country

Report by Jim Drickey



The *P-51B Mustang* is finished! It is a super nice build someone did years ago, and I got this model from Dean Copeland who came across it in an estate sale. Never had any radio gear installed, nor has it been flown.

I put new servos in and changed clevises to steel. Set it up with new KB .60 2-stroke for power. Re-fabbed motor mounts and plumbed fuel lines, adapted muff I had to fit engine. Has fixed gear and flaps, don't know the model kit mfg., no info on that.

Guy who built this did a nice job; finish is glass cloth and spray finish color. I added some dress up decals I had laying around. Spinner is a big one (3-1/2 in.) with 12/6 prop. I ordered P-51 correct parabolic alum spinner for a spare.

Will try to fly this spring, as you all know, this design warbird can be a handful! Don't have much money in it due to parts accumulation. So ....let 'er Rip!

Also included is a recent pic of S&T (*stick and tissue*) build of the *Morse Scout*. I have all the insignias on, but have lost all interest for any more work on it for now. So I will lay it aside for a while.

Capt. Insaneo.....*Over and Out*



~ April Old Timers' Fun Fly 16<sup>th</sup> ~

Website: <http://www.weflyrc.org/>

# The Cumulous Completed!

Report by Jud Bock



The building article last month was the beginning and this is the end. I started this project in January, to kill time mostly during the winter months, and never thought I would have enough shop time to finish it this winter. However, the late winter cold in March allowed me to finish it. Here are a couple of pictures of the finished product, and the specs.

- Wingspan=96 inches....
- Motor= .60 size electric motor and a 100 amp ESC
- Prop= 15-8 prop probably.
- Battery=5 cell lipo , 4000 amps, 18.5 volts

I was surprised that it came out as light as it did, for a 96 inch wingspan bird, with a final weight including a 4000, 5 cell Lipo, it weighs just 7 pounds. I have way too much motor in it and a .46 sized electric would have been sufficient, but as noted in the building article, I already had the .60 sized motor so I used it. As it turns out, I needed the weight in the nose anyway, so the .60 sized electric made it balance with no additional weight.

Not the usually easy Old-timer construction, and the two-piece wing proved difficult to build. I hope it is strong enough. We shall see. So, I am now ready for the test flight and hope it goes better than the other Shereshaw design did. Since this is a conventional design, I think it will be an easy flyer. See you at the field.



~ April Old Timers' Fun Fly 16<sup>th</sup> ~

# A Simple to Build Hanging Airplane Hangar

By Doug Clemetson



Even though I have only been involved with this hobby for less than a year, I have already realized how quickly one can accumulate airplanes. Since my wife won't let me store my airplanes in the house, I had to figure out a way to store them in the garage with limited space. Therefore, I came up with a simple to build hanging

"Hangar". I have already built two of these hangars and will need to build a third one soon. Each hangar can be used to store up to four airplanes.

The hangar is constructed from 1/2 inch diameter schedule 40 PVC pipe. Figure 1 shows a sketch of the end section of the hangar. Two end sections are required to be constructed as shown and then joined together with 24 inch pieces of 1/2 inch PVC pipe at the top and bottom. The laterals and risers are covered with pipe insulation to protect the planes. The dimensions and number of laterals can be varied as needed depending on the size and number of airplanes to be stored. My hangars are hung from the garage ceiling with two 16 inch long pieces of double loop chain attached to ceiling hooks embedded in the joists.

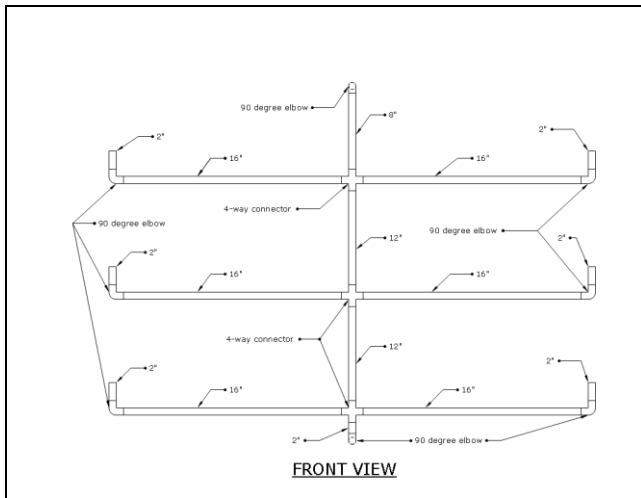


Table 1 shows the list of materials needed to construct the hangar. Mine were purchased at Menards but all materials are readily available at most hardware stores. Total cost of materials listed in table 1 was about \$30.

Table 1 – Hangar Materials List

Quantity	Item
3	1/2" x 10' Schedule 40 PVC pipe
2 Pkgs	1/2 " -5/8" x 3' Pipe Wrap (4 rolls per package) Tundra brand polyethylene
16	1/2" 90 Degree PVC Elbows
6	1/2" 4-way PVC cross connector
1	4 oz can clear heavy duty PVC cement

Optional materials include 18 #6-32x1-1/2" bolts and nuts to reinforce the connections, 2 ceiling hooks and chain to hang the hangar from the ceiling. The Hangar can be assembled in about one hour using the following steps:  
 Step 1 - Cut the PVC pipes into the parts listed in table 2. Hint: start with the longest pieces first. The pieces can be cut with a PVC pipe cutter, a hack saw, or with a fine tooth blade on a table saw or other saw. I chose to use my table saw with a fine tooth blade.

Table 2 – PVC pipe parts list

Quantity	Length (inches)	Part
2	24	End Section Joiners
12	16	Laterals
4	12	Risers
2	8	Top Risers
14	2	Lateral tips and bottom risers

Step 2 - Lay out the parts for one of the end sections as shown in Photo 1.

Step 3 - Glue the parts together for one of the end sections using PVC cement as shown in Photo 2. Use a flat surface and make sure the parts are square. Repeat for the other end section

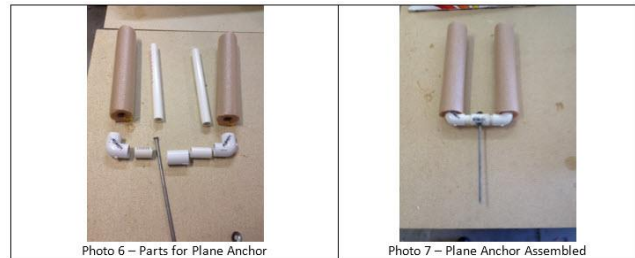
Step 4 - Connect the two end sections with the 24 inch long end section joiners and glue together as shown in Photo 3. An optional step at this point is to drill 9/64" holes through the vertical connectors and insert #6-32x1-1/2" bolts and nuts to reinforce the joints in case the cement weakens with age.

Step 5 - Cover with pipe insulation to protect the planes as shown in Photo 4

Step 6 - Hang the hangar from the ceiling and park the planes. The hangar will hold three planes with wings and fuselages on separate laterals or four planes if you double up the wings.

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## A Simple to Build Hanging Airplane Hangar Cont.



**Bonus use of left over materials for building a plane anchor.** If the parts for the Hangar are cut correctly there should be about 2 feet of leftover PVC pipe along with some pipe insulation. These scraps can be used to make a plane anchor for use in anchoring a plane while starting it at the field. A plane anchor was constructed by cutting two 9-inch sections of 1/2" PVC pipe and two 2-inch sections. Two more 90 degree elbows and a straight line connector were also required. The straight line connector was used in order to add strength but a single section of PVC pipe could have been used for the bottom pipe. To anchor to the ground, a 7-inch long 80D Galvanized Pole Barn Nail and two 1/4-inch flat washers were used. In order to construct the plane anchor, first a 15/64-inch hole was drilled through the middle of the straight line connector. Next, two 1/4-inch flat washers were bent to fit the contour of the pipe. Then the 7-inch nail was glued along with the flat washers on both sides of the straight line connector using 30 minute epoxy. After the epoxy cured, the remaining sections were glued together using PVC cement. Lastly, the pipe insulation was attached. This resulted in a very simple and easy to build plane anchor that cost about a dollar using mostly scrap parts.



# Airborne Surveillance

By Tim Peters



I am fortunate that my 'better half' Janet (AKA 'provider of brownies at WRCF club meetings') has been really supportive of my hobby over the last 44+ years. She has been more than a little interested in the FPV (First Person View) projects I have been doing; her biggest complaint is I don't have any 'recorded evidence' of my FPV activities to play back for her at home. My previous attempt at recording RC flights 'from the pilot seat' was about 20 years ago with a 'small' ←(read that as 'still pretty-good-size') video camera that a buddy and I crammed inside the cockpit of his ¼ scale Sig clipped-wing Cub. The amusing part of that adventure was that the only way the camera would fit was 'sideways' so in order to watch the playback you had to turn your head 90 degrees ☺.

My current FPV equipment does not provide DVR capability. I have been searching for a truly small video camcorder that I could use to capture in-flight video. It did not necessarily have to support FPV; I just wanted to take video, especially from sailplanes. The camera had to be small, provide reasonably high-quality video including a wide-angle view, and inexpensive. I found exactly what I was looking for online: The QQ5. This article shows a few photos of the 'QQ5' video camera. As viewed 'face-on', the size is 2" wide by 1" tall by 1". The camera body is about ½" thick but the lens protrudes another half inch so it is actually about 1". There are two button switches on the top that select video quality and stop/start the recording. It also contains a led that indicates the recording mode and activity. The QQ5 is capable of taking individual photos but I purchased it for its video capabilities. It supports full HD video with a 170 degree field-of-view. All this for less than \$30. It stores the photos/recordings on a micro memory card (purchased separately—I bought a 16GB card for less than \$10). The QQ5 connects to your computer via a mini-usb port. It does come with a cable for this purpose, the cable outputs to a full-size USB and a RCA video (yellow) jack. Recordings include audio as well, but I do know how this would output sound directly to a television. Right now I am satisfied just transmitting the recordings to my computer and watching them from the computer monitor.



Here are the *gotch-yas*: The instructions are very poor, I had my best luck searching for you tube videos that explain the QQ5 operation. I have yet to fully understand how the camera date-time stamp gets set. Depending on the video format (720 or 1080) you get three-minute segments (720) or continual (1080) video. I have yet to test the 1080 format. My initial videos are taken in 720. Anyway, check the article for pics of the camera and it's jury-rigged (double-stick foam tape and mucho rubber bands) attachment to my Bird-of-Tim sailplane. There are you tube videos (3-minute 720 dpi segments) taken from WRCF Mead flying site during mid-February 2016 (ignore the date time stamp on the video) you can watch if interested. Check the following links:

- [https://youtu.be/Wh7Qz\\_-VXfc](https://youtu.be/Wh7Qz_-VXfc)
- <https://youtu.be/Wir8KW-1KFM>
- <https://youtu.be/LpwhnaRmj9s>



## REWARDS PROGRAM

Remember [Hobbytown's Reward Program](#). With every purchase by a WF member, the club receives a credit for an amount equal to 1 percent of your purchase. Be sure to mention your [Western Flyers affiliation](#) when making a purchase at either Hobbytown location.





## ~ 2016 Western R/C Flyers Event Schedule ~

### **January 2016**

- **Wednesday, Jan 7th** - Club Meeting 7pm, NRC, Natural Resources Center, 8901 S. 154th St.
- **Saturday, Jan 17th** - Strategic Air & Space Museum's Indoor Air Show 2015

### **February 2016**

### **March 2016**

### **April 2016**

- **Tuesday April 5th** - Club Meeting 7pm, NRC, Natural Resources Center, 8901 S. 154th St.
- **Saturday, April 16th** - Old Timers Fun Fly with Glider Fly - Starts at 9:00am with flying until 3:00pm.

### **May 2016**

- **Saturday, May 21st** - Old Timers Fun Fly with Glider Fly - Starts at 9:00am with flying until 3:00pm.
- **Saturday, May 28th** - Scale Fun Fly and Swap Meet at Mead Field starting 9am.

### **June 2016**

- **Saturday, Jun 18th** - Annual Spring Club Fun Fly at Mead Field starting at 10:00am. Open flying.
- **Saturday, June 25th** - Old Timers Fun Fly with Glider Fly - Starts at 9:00am with flying until 3:00pm.

### **July 2016**

- **Tuesday, July 12th** - Club Meeting 7pm, MEAD FIELD bring a plane, open flying.
- **Sunday Jul 9th** - Western Flyers Open House Fun Fly. Starts at 9:00am with flying until dark.
- **Saturday, Jul 16th** - Old-Timers Fun Fly with Glider Fly - Starts at 9:00am with flying until 3:00pm.

### **August 2016**

- **Saturday, Aug 20th** - Old Timers Fun Fly with Glider Fly - Starts at 9:00am with flying until 3:00pm.
- **Saturday, Aug 27th** - Bud Hall Large Aircraft Fun Fly. Aircraft restricted to IMAA criteria. Landing fee \$10.00 provides lunch and flying. Rain date Aug 23rd.

### **September 2016**

- **Tuesday, TBD** - Club Meeting 7pm, MEAD FIELD - bring a plane, open flying.
- **Saturday, Sep 17th** - Old Timers Fun Fly with Glider Fly - Starts at 9:00am with flying until 3:00pm.

### **October 2016**

- **Tuesday, TBD** - Club Meeting 7pm, NRC, Natural Resources Center, Chalco Hills Recreation Area, 8901 S. 154th St.
- **Saturday, Oct 15th** - Old Timers Fun Fly with Glider Fly - Starts at 9:00am with flying until 3:00pm.

### **November 2016**

### **December 2016**



## Western R/C Flyers Inc. 2016 Membership Application

Please print clearly!

Name: \_\_\_\_\_

Street: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Evening Phone: \_\_\_\_\_ Day Phone: \_\_\_\_\_

Email: \_\_\_\_\_

AMA Number: \_\_\_\_\_

Amount Paid: \$ \_\_\_\_\_

**2016 Dues: \$35** (Renewals should be paid by **April 1**) New \_\_\_ Renewal \_\_\_ (Check One)

Sign Here: \_\_\_\_\_ Date \_\_\_\_\_

**Membership subject to approval. AMA membership is required.**

**Make Checks Payable to: Western R/C Flyers**

Complete this form and send with check to WR/CF Treasurer:  
Dean Copeland 15668 Fountain Hills Dr. Omaha, Nebraska 68118