

Jan 2020



EAA CHAPTER 145

SINCE 1962



Chapter Meeting: Saturday, Jan 18, 2020 – 10:00am
Riverview Airport (08C) in the big hangar (see map on last page)

CHAPTER MEETING

****Note that this month's meeting is a week later than normal****

This month our speaker will be Radek Wyrzykowski . He is in charge of the EAA VMC Club. The VMC Club uses real-world scenarios to engage members, and allow a free exchange of information that improves awareness and skills. The intent is to create a community of pilots willing to share information, provide recognition, foster communications, promote safety, and build proficiency.



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FACEBOOK

EAA Chapter #145 now has a Facebook page. Keep an eye on the site for events and notifications and photos. This will be an ever-evolving page, as we learn how to best use it.

<https://www.facebook.com/EAA145/>

EAA145 HANGAR

-A flying club has their C-182 in the hangar for engine and avionics upgrade. The project could take several months to complete.

-Hangar space may be available again in March. Contact Dick Foster for details.

YOUNG EAGLES

On 7 December, 5 pilots from EAA221 and one pilot from EAA145 flew 32 youth at the Air Zoo in Kalamazoo. 17 of the youth were Boy Scouts. It was the first time EAA221 used the new website sign up program and all things considered, it went smoothly, thanks to Ginger.

DUES ARE NOW BEING COLLECTED

Dues of \$35.00 are payable to "EAA CHAPTER 145" and can be mailed to Bob Swietek at the address listed at the end of the newsletter or brought to the monthly chapter meeting. If you need to make any updates on your contact information, please include the tear-off slip for member data and update with your payment.



PRESIDENT'S CORNER

Welcome to a New Year. Here is a sample of some of the programs, events, and activities that EAA chapter 145 participated in 2019. We want to thank you for helping support the chapter as a volunteer, presenter, or attendee.

- Sonex "B" Model – Greg Kaat
- Scott Dykstra – Vinyl Wrapping RV9-A
- Nick Baine – Experimental Avionics
- Herb Harney – Yellowstone Adventure
- Dennis Hutchinson - Davis DA-2
- Weeks Hangar Work Party - Chapter 145 trip to Oshkosh
- Eli & Owen - Air Academy Camp
- Boy Scouts Aviation Badge - Young Eagle flights at O8C
- WMFA - Young Eagle flights at 61D
- EAA Ford Tri-Motor Event at GRR
- GAAA Young Eagle Event - EAA145 at 6D6
- Young Eagle flights - Grand Haven, 3GM
- GRT-Avionics Product Review – Greg Toman
- Help with YE rally at Sparta - EAA704 (8D4)
- Howard DGA-15 – Roger Brown
- OSHKOSH Airventure - EAA145 camping
- SMAT Open House - EAA145 A/C parking
- Wings of Mercy YE flights - Holland, BIV
- Riverview Airport Bonfire and Cookout
- Help with Boy Scouts Aviation Badge – EAA704
- MILLER ELECTRIC – TIG Welding
- Boy Scouts Aviation Badge – Y.E. flights at KAZO
- Annual Riverview Christmas Brunch



WOW! Local EAA chapters do a lot to promote sport aviation. I'm proud to be part of EAA145 with all of the hardworking, dedicated officers and members. I don't have room to list all the names, but you all know who you are. So thank you and I feel that 2020 will be another rewarding year for EAA Chapter 145. All the Best in the New Year, Dick



EAA WEBINARS

A good way to gather information during the cold months is to sign-up for EAA Webinars. Some EAA Webinars qualify for credit in the FAA's WINGS or AMT awards program.

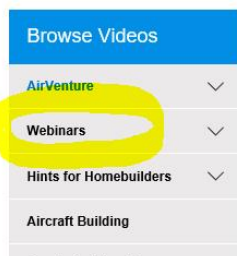
Upcoming webinars include:

1/8/20	7 p.m.CST	AOG! Dealing With Breakdowns Away From Home	Mike Busch
1/15/20	7 p.m.CST	Transportation Security and You, What's New Since 9/11?	Prof. H. Paul Shuch
1/21/20	7 p.m.CST	Basic Aerodynamic Principles Demonstrated in Aerobatics	Dagmar Kress
1/22/20	7 p.m.CST	EAA Proficiency365 - Stay Active & Current Year-Round	Radek Wyrzykowski
1/29/20	7 p.m.CST	Compression Testing Aircraft Engines and Maximizing Cylinder Life	Bill Ross

Many other webinars can be found in the EAA Video page of the EAA website:



Videos | AirVenture



HINTS FOR HOMEBUILDERS - Cowl Plug Footballs

By Bill Repucci -

Keeping birds and other critters out of your engine cowl is serious business. It's amazing how quickly our feathered friends can create a tinder pile on top of a cylinder, and unless they leave a trace of grass or twigs at the inlet, you might not catch it. Cowl plugs are the answer.

After I changed to a Sam James cowl (featuring round air intakes), RV builder Brian Carroll suggested using Nerf footballs for cowl plugs.

A bread knife quickly and cleanly cut the larger football in half. (Please don't tell my wife!) String was used to tie the two football halves and small football together.

By looping the string over the propeller, should the starter be engaged without removing the cowl plugs, the footballs will be pulled out of the cooling inlets.

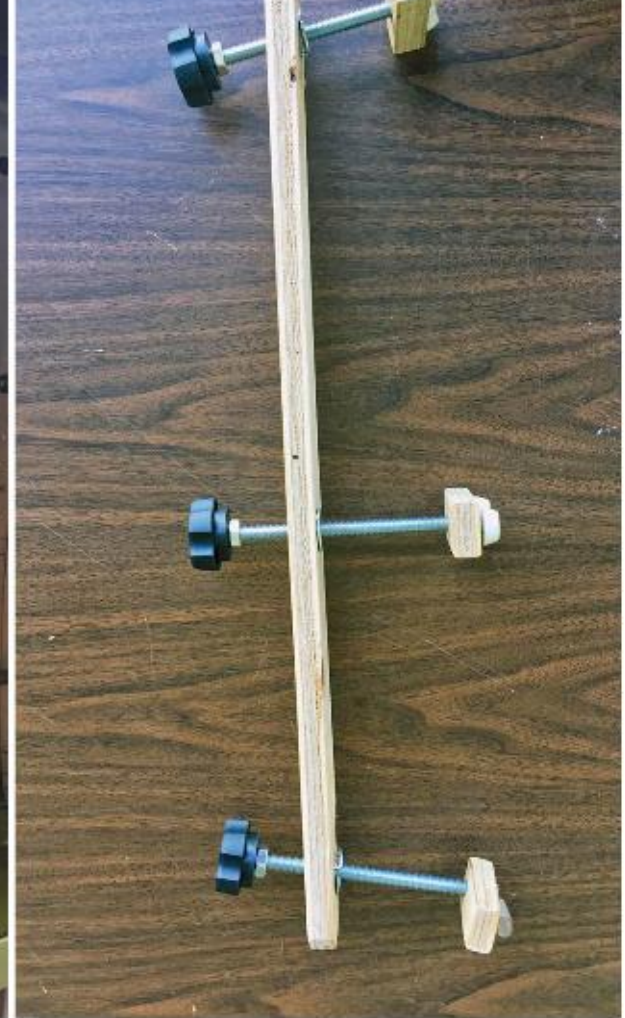


HINTS FOR HOMEBUILDERS – Third Hand

What do you do when the construction manual says "for this task you will need a helper," but there is no one around who can help for a couple of hours? You make a jig, of course.

A wing usually has a mix of ribs and hat sections—stiffeners so named because their profile looks like a hat—and they need to be placed and held tightly against the wing skin for drilling. The wing skin has to be in place for this, so there is no way to reach around and hold the stiffener in position on one side while drilling through the skin and the stiffener from the other.

That's where a jig comes in handy. Most jigs are specific to a task, but their purpose is to hold the workpiece in place or to guide a tool operating on it. The specific purpose of my jig is to press the stiffener against the wing skin freeing me to walk around the other side and drill holes



The problem: GlaStar hat sections have to be drilled through from the outer wing skin (left), but there's no way to hold them in place on the inside of the skin. Here's the final fixture (right) ready to be used.

and insert Clecoes, thus obviating the need for a human helper. It is quick and easy to make, and it only needs to last for the duration of the assembly—then its parts can be repurposed for something else.

To push against the flat part of the stiffener I made feet with rubber bumpers which are screwed into a small piece of plywood. The opposite side has a partly drilled 3/8-inch hole to receive one end of a 3/8-inch threaded rod. There is no need to capture the rod in the foot because wood fibers in the hole are sufficient to keep it attached, yet the hole is loose enough to allow rotation.



Here's the basic hardware required to build this jig. Nothing fancy, nothing you won't find at your local hardware store.



Bumpers hold the hat section in place without marring the surface.

The rod passes through a T-nut installed in the larger piece of plywood that I've cut to fit snugly between the wing spars. The shape of the spars keeps the plywood in place, but it also dictates that the top and bottom rods be at an angle to reach the correct spot on the stiffener, which sits below the edge of the spar.

I drilled the holes for the top and bottom T-nuts at an angle, and plywood is soft enough to allow them to be inserted like this. The T-nuts are inserted on the side facing the wing so that the applied force is pushing them into the plywood. If they were on the outside, they would likely pop out.

The most expensive parts of the jig are the threaded knobs. They are held in place with a jam nut and make it easy and comfortable to turn the threaded rod.

When the hat stiffeners are done, I'll put the jig away and probably find another use for the parts in a different jig.



At the outer edges of the hat section, the "third-hand" jig rests inside the spar channel. Note the angles needed to place the foot in the correct spot.



EAA Chapter 145 website: www.145.eaachapter.org
 EAA National website: www.eaa.org
 Riverview Facebook: <https://www.facebook.com/EAA145/>

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UPCOMING EVENTS

Jan 18	Riverview Airport (08C)	Meeting – EAA VFR Club – Radek Wyrzykowski
Feb 8	Riverview Airport (08C)	Meeting – RV-14A Project – Bob Swietek
Spring '20	Bahamas Trip	West Mich Pilots Group – Bahamas Trip
July 1-5	Battle Creek Airport	Battle Creek Airshow & Balloon Festival
July 4-5	Traverse City	National Cherry Festival Air Show
July 20-26	Wittman Field (OSH)	OSHKOSH 2020
July 28-Aug 1	Mentone, IN (C92)	P.R.A. Convention - Gryocopters
Aug 29-30	Willow Run Airport	Thunder Over Michigan Airshow – Ypsilanti MI

If you know of events that should be on the event calendar, please e-mail them to me

If you would like to be on the e-mail list for meeting and event reminders, or if you would like to receive the newsletter electronically, which is full color and delivered days before the print version... please send your e-mail address to:

randall.houtman@dematic.com

The 2020 Officers for EAA145:

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Treasurer's Report: (as of Jan 2th)

Liabilities: \$4055.00
 Cash: \$165.85 Checking: \$42.11
 Savings: \$6112.29 Total: \$6320.25

Website Editor, Bill Willyard
 (wqwillyard@att.net)

EAA CHAPTER 145 MEMBERSHIP APPLICATION / RENEWAL FORM DUES ARE \$35.00 PER YEAR – JANUARY 1st to DECEMBER 31st

Name _____	Aircraft Owned _____
Co-Pilot / Spouse _____	_____
Address _____	Projects / % Complete _____
City _____	_____
State / Zip _____	Bring this form to the next meeting or mail to:
e-mail address _____	EAA Chapter 145 Treasurer
Home Phone _____	6962 Bridgewater Dr. SE
Work Phone _____	Grand Rapids, MI, 49546
National Membership # _____	

Experimental Aircraft Association – Chapter 145 – Grand Rapids, MI

