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# Chapter 81 Skywriter

Annual dues are \$20, and have been assessed for 2018.

Checks should be made payable to EAA Chapter 81 and brought to a chapter meeting or sent to the Treasurer:

Eric Nelson  
10270 N. Krauswood Ln  
Oro Valley AZ 85737

**Do not send payment to the newsletter editor!**



These handsome chapter 81 patches are available from Eric Nelson when you cough up money for your dues.

**EAA Chapter 81 Meeting**  
**August 18, 2018 - 10:00 AM**  
**Ryan Airfield Administration building**

Mike McDougal, from Fighting Classics at Marana Airport - Restoration of old fighter and training aircraft

After the our regular Chapter meeting we will have a brief Board of Directors meeting

Click on the link below to see aviation events around Arizona for March 2018

[Arizona Aviation Events](#)

Dave Jaksha



Hot and cold....

We all probably have a non-contact infrared thermometer with a red laser pointer that can be positioned on some surface to record the surface temperature. The prices on these single pixel devices have dropped in many cases to under \$25. Very useful for a quick check but keeping in mind that the field of view (distance-to-spot ratio (D:S) ) of the device expands the further you are away from the surface. Eg., with a D:S of 12:1, the thermometer measures a 1" radius circle when 12" away. D:S ranges from 75:1 for an expensive non-contact to 8:1 for a Horror Freight cheap version.

For a really informative idea of what is going on, it would be great to have a two dimensional view. I have always been interested in using a infrared imaging device to look for hot spots ( or in some cases, cold spots) in electronics and engines. Several years ago, [FLIR.com](http://FLIR.com) introduced a small IR camera that worked in conjunction with a smartphone. The resolution is small ( 80X60 pixels). Pretty low, but the image is made more usable by superimposing a visible image on top of the IR image. It does this by incorporating two cameras into the unit, a IR and visible (1440x1080). The two cameras are then uploaded directly to the camera for image processing and display. When first introduced it was several hundred dollars. Enough to keep me from clicking on the buy now button. But, a new version of the camera called the FLIR one Gen3 is now available for under \$200.

The camera and operating application is available for IOS using a lightning connector or Android via. USB-C.

[Thermal Imaging 101](#)

[Link to Flir one and other IR imagers](#)



## Notes from the President.....

### Upcoming speakers for the monthly chapter 81 meetings

Sept. 15: Ernie Copeland, FAA Safety Team Manager, “Basic Communications for Aviators”.

Oct. 20: Ken Drozd, meteorologist and severe weather expert, National Weather Service, Tucson.

Nov. 17: Elections of new Chapter officers. Please volunteer to run for our Chapter’s leadership positions. It is a great opportunity to actively promote the EAA and our Chapter.



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### Southern Arizona Teen Aviation Website.

We are a non-profit 501c(3) organization dedicated to introducing High School Students to aviation. Much of a teenager’s school life is spent sitting in a classroom, doing homework or studying for a test. Our classroom is a workshop. The primary focus of our work is building a Van’s Aircraft RV12 airplane and then flying it. A real airplane.

The group of high school students participating in building the Van’s RV-12 light sport aircraft with the Southern Arizona Teen Aviation organization continue to make good progress as they started their Summer school vacations. New students were interviewed for next semester, and a Summer session is being started once a week on June 6. Hopefully they will be able to fly the aircraft to the EAA’s Air Venture in 2019. However, as many experimental aircraft builders will tell you, the airplane will be done when it’s done!

[Click here for more information](#)

If anyone has any suggestions for future speakers, or has an aircraft project they want to share with the group please let us know.

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The FAA Safety Team has an outstanding website which I recommend everyone to explore, <https://www.faasafety.gov>. It has a wealth of excellent information, training courses, webinars, etc. Check it out!

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The October, 2018 edition of the COPPERSTATE Fly-In has been cancelled by a unanimous vote of the Board of Directors. We are unable to host the Fly-In at Falcon Field in Mesa for a variety of compelling reasons. Fly-In will be held at the Buckeye Airport (KBXK) on February 8<sup>th</sup>, 9<sup>th</sup> and 10<sup>th</sup>, 2019

[Click here for more information](#)

**CopperState Fly-in has started to put out a month newsletter to keep everyone informed about ongoing preparations for the upcoming Copperstate Fly-in.**

**Marty Kirkhuff, President 602-618-0994**  
**[president@Copperstate.org](mailto:president@Copperstate.org)**

<https://www.copperstate.org/>

Scroll to the bottom of the [copperstate.org](https://www.copperstate.org/) web site to signup for newsletters.

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We are asking our Chapter members to please contribute to our Newsletter with aviation oriented articles or short pieces and photos. Photos of your aircraft and build are especially welcome. Just drop a note to [newsletter81@eaa81.com](mailto:newsletter81@eaa81.com) with either text, or photos. I will edit and post either in the newsletter or on the webpage. There is a tremendous amount of talent in our group, so please pass along your expertise and knowledge to all.

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If any of our Chapter members has a project he/she would like to show please let me know. We can schedule a meeting at your project's site if that is possible.

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There was a Young Eagle flight done in June, an early morning mission flown by Young Eagle pilot John Winter. Thanks John!

## EAA Webinars

[August and September webinars](#) that you can enjoy from the comfort of your home. EAA webinars are free to all aviation enthusiasts. Pre-registration is recommended since space is limited to the first 1,000 registrants. Qualifies for FAA Wings and AMT credit.

### **What's Changed, What Hasn't**

Wednesday, August 8 – 8 p.m. CDT

Presenter: Mike Busch | *Qualifies for FAA Wings and AMT credit.*

[Register Now >>](#)

### **164 Years of Glider Homebuilding and Future Glider Amateur-Building**

Wednesday, August 15 – 7 p.m. CDT

Presenter: Murry Rozansky

[Register Now >>](#)

### **Plan, Fly and Log with iFlightPlanner**

Wednesday, August 22 – 7 p.m. CDT

Presenter: Andy Matthews | *Qualifies for FAA Wings credit.*

[Register Now >>](#)

### **Your First Aerobatic Plane**

Tuesday, August 28 – 7 p.m. CDT

Presenter: Jim Bourke | *Qualifies for FAA Wings credit.*

[Register Now >>](#)

## **Inside the Crankcase**

**Wednesday, September 5 – 8 p.m. CDT**

Presenter: Mike Busch | *Qualifies for FAA Wings and AMT credit.*

[Register Now >>](#)

## **VFR Navigation: Three Keys to the Kingdom**

**Wednesday, September 12 – 7 p.m. CDT**

Presenter: Prof. H. Paul Shuch | *Qualifies for FAA Wings credit.*

[Register Now >>](#)

## **Pass Your Checkride**

**Wednesday, September 19 – 7 p.m. CDT**

Presenter: Larry Bothe | *Qualifies for FAA Wings credit.*

[Register Now >>](#)

## **Flying with EAA Virtual Flight Academy**

**Wednesday, September 26 – 7 p.m. CDT**

Presenter: Brandon Seltz | *Qualifies for FAA Wings credit.*

[Register Now >>](#)

## Eric Witherspoon

Some of you may recall that I was working on a Sherwood Ranger Biplane project. I had made a couple of presentations to the chapter about different aspects of its construction. For the past 5 years I had done nothing with it but move it from one storage location to another. Through a Yahoo news group that I had created for the type, in April I found someone in San Diego who was very interested in the parts and licensed plans that I had for the project. We made a deal, and the Sherwood continues in the San Diego area. My overall impression was that an airplane is hard enough to build, so don't choose one which consists of an incredibly high number of parts in its design. The Sherwood was very light weight, but it consists of about a million pieces, and then there's fabric covering. I wasn't the one to get this done.

Sometime in May, I ran across the Dec. 2017 Sport Aviation article about someone acquiring the rights and making plans available again for the two Leon Davis designs that had plans – the DA-2A and DA-5A. For whatever reason, I thought the DA-5A was better looking, so I bought those plans. The idea here is to do something quite different from the Sherwood – find something intentionally designed with low parts count in mind. As I look through the plans, I think, it's not all here! Mr. Davis was extremely clever in his minimization of parts count. The tail cone has two skins. Upper half & lower half. There's only ONE longeron in the tail cone at bottom center, on the outside. Two other functional longerons are formed with z-bends at the upper edges of the lower skin. And the design just continues like that. I haven't decided to buy material and start building it yet, but it has the look of being much simpler to build than the Sherwood. It uses the Continental A-65 for power. These are available in low-to-mid time examples for \$3-4k, as they're being removed from Luscombes, Taylorcraft, Cubs, and other types that are getting replacements in the 75-100hp range.

I have built a mockup of the DA-5A cockpit. As usual with most airplanes, it's not spacious, but I fit. I have also created a spreadsheet-based parts list from the plans. I compared this with my similar spreadsheet for the Sonex that I built. The Davis has about one third as many parts as the Sonex! It took me about 1250 hours to build the Sonex from plans. If one third the parts count is any indication... Though the Davis doesn't have factory support for things such as the fuel tank, welded parts, and cowling, so there will be time added to either make those or get them made. If anyone wants to try the DA-5A cockpit mockup for size, let me know. If you want to know more about the DA-5A than what's in the Dec. 2017 Sport Aviation, there's an article about it by Jack Cox in the Dec. 1974(!) Sport Aviation – if your collection doesn't go back that far, use the free searchable Sport Aviation archive that's included with your EAA membership.

## Angel and Greg Duncan

### April 2018 Hangar report.

We would like to thank Bob Allen for his generous donation of new A/N hardware, rivets, new parts and a few more tools for our tool collection I'm not going to try to list everything he donated, but here are the highlights. New parts:

- Assorted A/N hardware
- Assorted Rivets (several sizes of driven and pulled/pop style)
- Assorted standard hardware.
- 2 Rapco Brake linings #RA66-105, A/C Spruce p/n 06-16955, LOC:21GC
- Rapco Replacement Pneumatic filter RA 154-6 A/C Spruce p/n 10-23820
- 2 Rapco filters RA-D9-18-1
- PTT switch with "Locktight Jack" (coiled cord)
- Non Adj Platemount A/C Spruce p/n 08-07222, sk 2003-14A, LOC:01EI
- 2 feet of 3 inch wide Baffle Seal A/C Spruce p/n 05-04717-3, LOC: 60AE
- 2 1/4 inch Instrument mount nut ring MK-03, A/C Spruce p/n 10-00337
- 1 AvLab test kit for turbine and Piston oil filters.
- 2 EGT Thermocouples 712-2DWK, 48", 2.5ohms res, 0-2100f, 32.9 mv@1500f
- ELT Antenna
- handheld radio antenna (that's a guess)
- 2 (used) Five gallon gas cans. (we are not allowed to store gas at the hangar so let's find them a home) -Used assorted A/N and standard hardware.

Donations to the club kitty for parts, hardware or raw aircraft building materials are always welcome.

#### Tools (highlights):

- Sparkplug Cleaning machine
- Free standing Utility work lights -20 ton bottle jack
- 2 High wing Cessna Jacks
- 1 set of wheel chocks

Chapter members in good standing may: Borrow chapter owned tools and equipment free of charge.

Book the entire hangar at a rate of \$10. a day (first come, first served) Find parts, hardware or raw aircraft building materials for a smokin' deal.

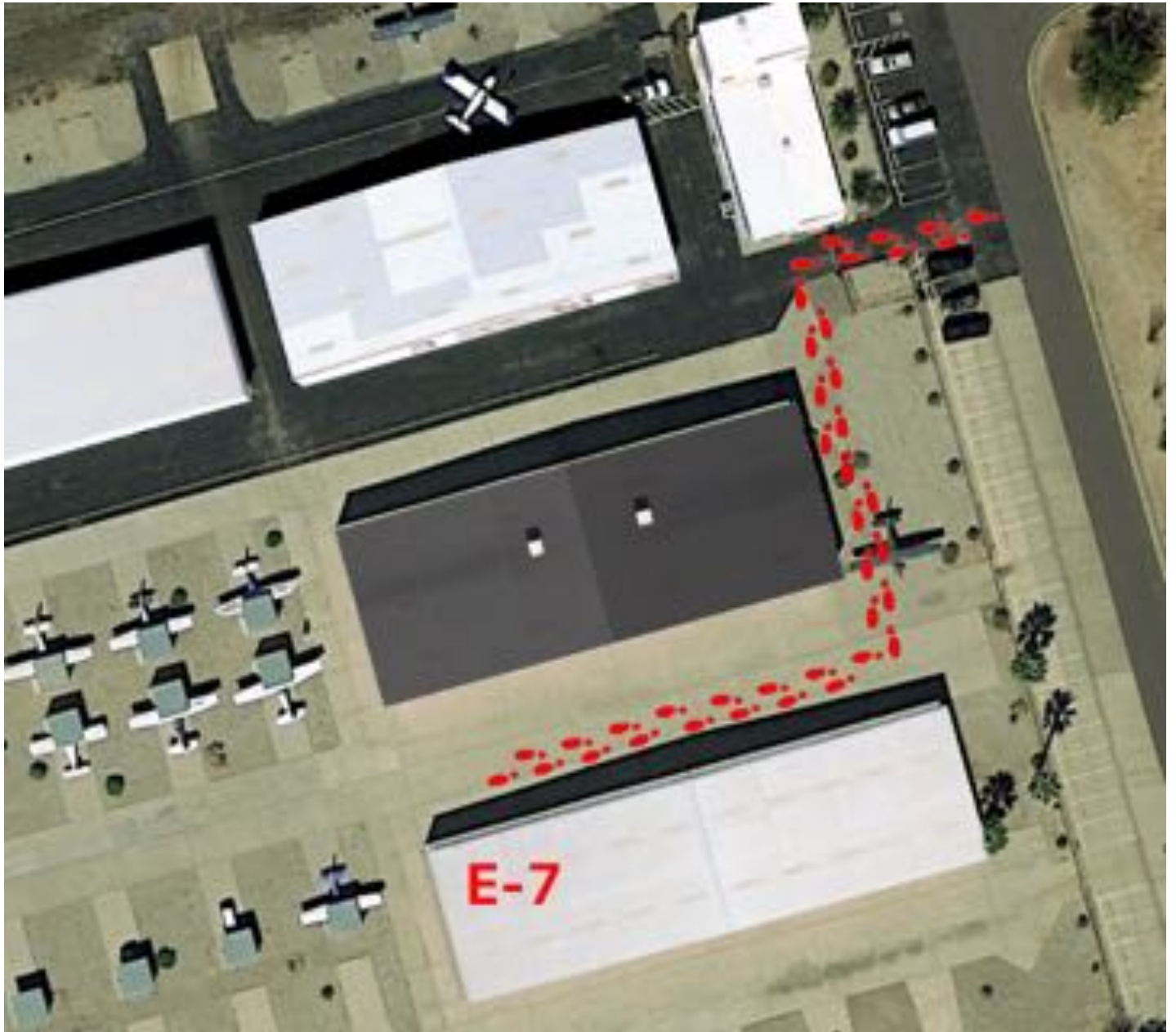
Don't forget to explore our chapter library of over 200 titles in books, DVD's and VHS while you're there.

Contact Greg or Angel Duncan at home (520) 578-1162 or Angel's cell (520) 270-8076

## Location of the EAA Chap 81 hanger

Drive down South Aviator Lane to the end. Park just south of AirWest. There is a walk in gate just south of the auto gate. It is not locked. Walk through the gate, and turn left. Walk past the first hanger on your right. The EAA hanger is on the Northwest corner of the second hanger, E-7 Bring a chair if you are attending a chapter meeting. [See the two images below!](#)





## Classifieds

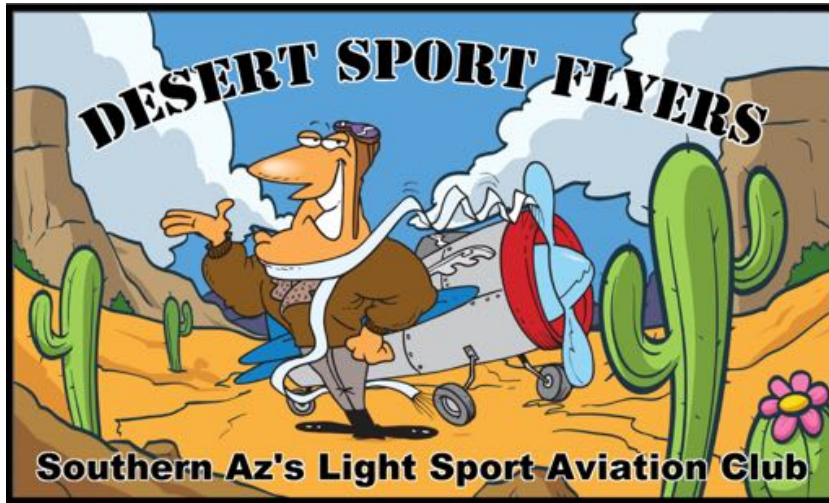
**Remember that you can place an add in the newsletter ( it will appear on the Chapter 81 web site also) to sell those items in your hangar. Then, you can buy more shiny stuff to put in your hangar! Send email to [newsletter81@eaa81.org](mailto:newsletter81@eaa81.org) with a pic, description and contact information.**

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011 Zenith Zodiac 601XL w/B modifications. EXTREMELY nice looking plane. 158 hrs, Jabiru 3300, MGL Glass panel plus a mounted tablet, autopilot, plus all the other stuff. \$44,500

If interested, contact Jimmy  
860-946-7194  
[jimmyg2000@att.net](mailto:jimmyg2000@att.net)





Two barn finds leading to start of Light Sport flying club. The first one is nearing completion of restoration and the annual is about finished. We expect to be flying this one by the end of February. The plan is to start the flying club in March if there is enough interest from the sport pilots around Tucson. The restoration on the second one will take several months. We would like to try 15 pilots per airplane. If scheduling is reasonable at this rate, we will have a club that is very strong financially. The total cost for each member will be \$150 per month. This will entitle the member to two flying hours each month. These hours will not carry over, but will expire at the end of each month if not used. Additional hours can be scheduled for \$50 each.. We would like to hear from every one who is interested in joining a sport pilot flying club.email: [desertsportflyers@gmail.com](mailto:desertsportflyers@gmail.com) Sec:Jim Taylor 520 349-5833

PLEASE NOTE; THIS CLUB WILL NOT BE LIMITED TO SPORT PILOTS. OTHER PILOTS CAN APPLY, AS WELL.



JUST ABOUT FINISHED WITH ANNUAL



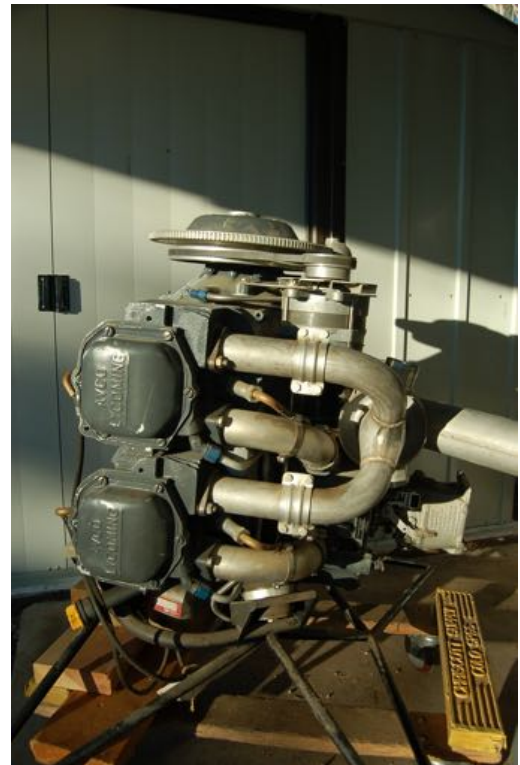
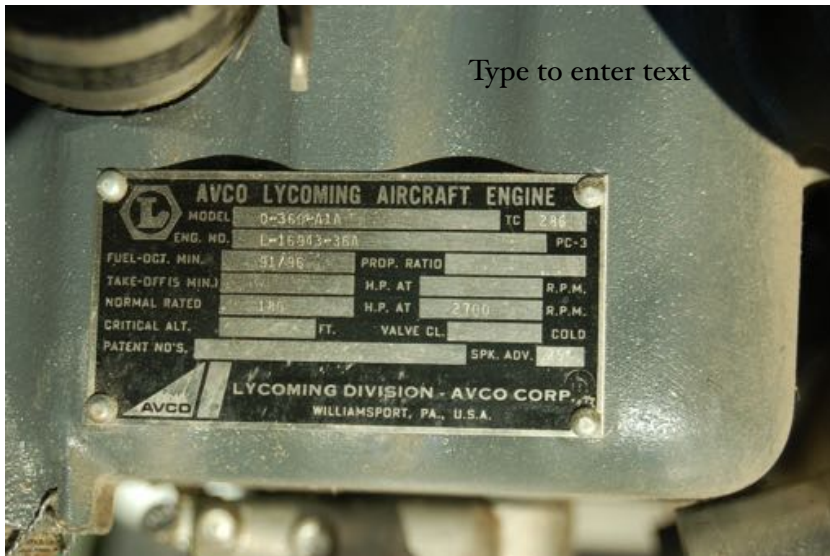
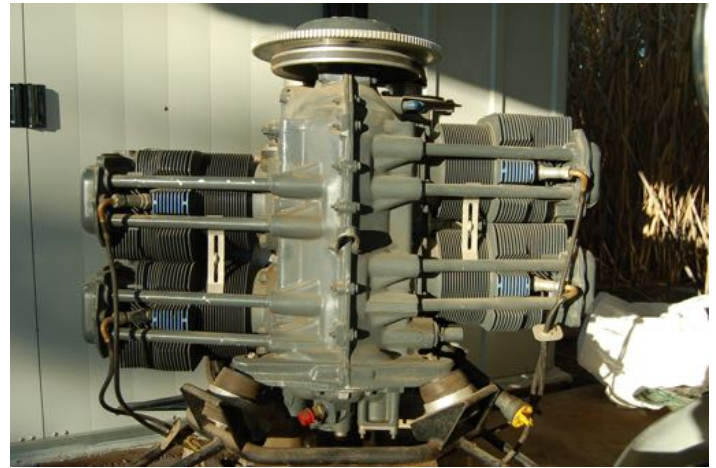
PICKED THIS ONE UP FROM BARN NEAR JOPLIN, MO



PICKED THIS ONE UP FROM BARN NEAR LEXINGTON, KY

## Price reduction !!

My girlfriend's father was involved in building a BD 4, but never had the chance to finish it. She inherited the engine, a Lycoming O-360-A1A, and we have been trying to find it a new home. It was bought new and never used. We are asking \$5,000 obo. It is located in Tucson. [daniel01az@msn.com](mailto:daniel01az@msn.com)



**Check out our Chapter Facebook Page!**  
<https://www.facebook.com/ea81.org>

**Please send items of interest, classifieds, etc**  
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 ([newsletter81@ea81.org](mailto:newsletter81@ea81.org))  
 or to Dave's address on front page.



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