



the fifth wheel

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Come to Our Next Meeting!

Date: Wednesday, January 24, 2018

Time 7:30 PM. Place: Lehigh and Northampton Transportation Authority Headquarters (LANta), 2nd Floor Meeting Room, 1060 Lehigh Street, Allentown, PA 18103. Latitude : 40.587607 | Longitude : -75.474405. Bring a guest!

Don't get locked out. If you arrive late, the main door of the LANta office building may be locked. This is for security purposes. But the facility is open around the clock, so ask one of the garage employees to direct you to the second floor.



The Fifth Wheel is published monthly by Lehigh Valley Corvair Club Inc. (LVCC). We accept articles of interest to Corvair owners for publication. Classified advertising of interest to Corvair owners is available free of charge to all persons. Commercial advertising is also available on a fee basis. For details, email our newsletter editor, Allan Lacki, redbat01@verizon.net.

LVCC Monthly Meetings Resume!

In deference to the holidays, we haven't had a monthly membership meeting since October. But now we're back in action. It's a new year for LVCC!

Come to our next meeting on Wednesday January 24. We'll be trading stories, swapping tips, fielding questions, talking about local news and passing around parts and literature - all Corvair related, of course! It's election time, so we'll be nominating members for office and holding elections, too.

Our officers and members are Corvair experts. Take advantage of us!

Are You Driving a Time Bomb?

Not to make you panic, but out on the Corvair Center Forum, Ken Hand posed the question, "Are you driving a time bomb?"

Ken is not only past president of CORSA but also a highly proficient Corvair mechanic who made his bones rebuilding aircraft engines. And lately,

he's been seeing problems with the magnesium engine cooling fans - the kind on 1964 to 1969 Corvairs. Ken says, over the past five years, he has seen more cracked engine cooling fans than in the last fifty. Here are some quotes from Ken's posts:

As you know, the 64-9 cooling fans are made of magnesium. Magnesium has some issues and the major one is called intergranular corrosion.

I have cleaned and scrapped at least a dozen fans that looked until I found a fin that was cracked at the outer end root.

It is real simple. All you need to do is take a look at your fan. Generally in magnesium, it will be quite obvious if there is any corrosion or cracks. No need for using dye penetrant inspection.

Don't stop using your magnesium fan or stop driving your car. Just look at them once in a while. If you feel you don't know what you are looking for find another Corvair person to help you.

I am going to be racing and driving my cars with the mag fans. Again a simple look, very easy to do, and the pictures I posted should give you an idea of what to look for other than just cracks.

Ken Hand isn't the only person interested in this topic. Dale Dewald, CORSA Division Director and Lab Assistant/Foundry Technician at Michigan Technological University, responded to Ken's post. He had this to say:

I have looked at some literature in regard to Mg die cast alloys. This looks like stress corrosion cracking; a method of crack initiation and growth accelerated by a combination of stress and a corrosive environment. The various papers not surprisingly identified NaCl and CaCl2 as corrosive agents and also H2SO4-good old battery acid.

One paper also identified the sulfur compounds [additives] in oils that would attack Mg. The chemical mechanism is more than I want to describe on this forum but it involves hydrogen liberated from the reaction of the acid with the Mg causing localized hydrogen embrittlement.

There were also a couple references to surface treatments for Mg alloys. In particular, abrasive blasting with silica or [especially bad] iron shot can set up micro galvanic corrosion from residual embedded media that can initiate cracks. I think it would be good idea going forward to only use plastic media for any blast cleaning of Mg fans.

Acid corrosion may explain why otherwise rust free cars have corroded and cracked fans. There was a reason for the original externally - vented cap assemblies to direct acid fumes out of the engine compartment. Often these were tossed aside at the first battery change.

Modern batteries may not present much of a problem now, especially the AGM or gel types.



Here is a NOS 1964-69 Corvair engine cooling fan, straight out of the box. This is what they look like new.

Inspecting Those Magnesium Cooling Fans



Look for cracks at the bottom edges of the blades.



Sometimes, you'll see cracks and corrosion on the bottom side of the fan, too.



This is what they look like when they explode. Check out that collateral damage. It's messy! It even broke the oil cooler, which is why there is a big pail of dirty oil next to the turkey roaster.



William Wynne - a big proponent of using Corvaire engines for home-built airplanes - had the engine cooling fan explode on his Corvaire while driving from Florida to New Jersey, so he McGyvered this huge air scoop to his engine to get home!

Kevin Nash Engine Cooling Fan

The following article was prepared using comments and photos posted by Kevin Nash on the Corvair Center Forum discussion board as well as the author's own knowledge.

Last summer, Kevin Nash of Friday Harbor, Washington announced a new engine cooling fan that he and Ray Sedman had designed. It's a bolt-in replacement for a stock Corvair fan, but its design is a lot more sophisticated. It differs from stock Corvair fans in that it has backward-curved blades and smooth transitions at the blade tips. And it looks cool, too!

Why go through all the trouble? According to Kevin, his fan should be able crank out a lot more pressure and use a lot less horsepower, particularly at high rpm. That claim is consistent with blower design theory, so Kevin may be on to something here. He had two prototypes made for testing, each being machined from a solid block of 6061 T-6 aluminum.

That's an expensive way to make parts, and Kevin is very much aware of that fact. He's explored 3D printing as an alternative, but explained, "at this time, there's no printer big enough to print one out of aluminum, and even if there was, the holes would still have to be machined, and this can cause some significant balance problems. I looked into printing one from titanium a few years ago. One company had a printer big enough to do it, unfortunately it was 2,000.00 bucks just for them to even look at the model. 3d printing is an option for composites like ULTEM and others, but it is also very expensive and will require re-design."

Corvair trivia nuts are aware that the blades on the stock magnesium fan are not equally spaced, and that this is an aerodynamic thing to prevent the fan from howling. But the blades on Ken's fan are equally spaced. He points out that the more gentle the direction change at the tips, the quieter the fan is, and the less reason there is for the staggered pitch. The net effect of the smoother exit angle is that the air leaves the fan much slower than it would if the blades were straight, which is a major reason for the expected effi-

ciency improvement and reduced noise.

Some folks claim that, above 45 mph, there should be sufficient ram air effect to cool a Corvair engine without a fan, but it's almost impossible to take advantage of ram air because the engine is in the rear. And there is no doubt that the stock magnesium fan becomes increasingly inefficient at high RPM in terms of the horsepower required to drive it. So, an improved fan makes sense.

Where is this leading? Time will tell. Kevin plans to thoroughly test the new fan. We are eager to see the results.

NJACE Parts Auction!

The annual Corvair Parts Auction, conducted by the New Jersey Association of Corvair Enthusiasts, will take place on Saturday, February 17, indoors at Ashley's Auto Body on Hillside Avenue in Flanders, NJ. (We'll use the following Saturday, February 24, as a "snow date" if necessary.)

Free lunch! Read on.

At the auction, our shameless auctioneers offer Corvair parts and Corvair-related items to the highest bidder, with a 10% commission of the sale price going to the club treasury. You may bring parts to sell, you may buy, or you may do both, or you may just come to enjoy the fun. Here is what you need to know to fully enjoy the day:

First, plan on making a day of it. Due to the nature of how the auction operates, it is not possible to process any buyers or sellers until the auction is completed. Doors open at 9:00 AM for set-up, we begin the bidding at 10:30 AM, take a pizza break at 12:30, resume the bidding at 1:00 PM, and finish up typically around 2:30 PM. Only at that time can we tally the sales, collect from the buyers, and pay the sellers.

Second, plan on getting there early. As

(Continued on page 5)



Prototype Corvair Engine Cooling Fan, by Kevin Nash.

Corvair Cooks Corner!

Tomato Soup with Garlic Croutons and Basil

Here is a recipe for a simple healthy soup from Colleen Mimnaugh, Nutrition Director at Mind Body & Soul Fitness. LLC, 1200 N. Ridge Road, Perkasie, PA 18944.

Mind Body & Soul specializes in weight loss and fitness. Their weight loss program makes use of normal foods available at any local grocery store. Each client is assigned a personal food coach who remains in touch with the client throughout the program. LVCC Editor Al Lacki lost 50 pounds with Mind Body & Soul, so there must be something to it.

INGREDIENTS

2 tbsp Olive oil
 2 shallots, peeled and chopped
 2 Cloves garlic, chopped
 1 1/2 lbs Tomatoes, quartered
 2 tbsp Paprika
 2 1/2 cups Vegetable stock
 1/4 cup Fresh basil



DIRECTIONS

Simply mix the ingredients together and cook the soup for 15 minutes. Yields 4 cups. Serving size is 1 cup of soup and 1 piece of cubed, seasoned bread. Counts as 2 veggies, 1 starch, and 1 fat.

we said we'll open the doors at 9:00 AM, to allow time to tag and display any parts you are selling, and to allow you to peruse the parts being offered. If you're selling, you will need to fill out an Auction Lot Card for each part or group of parts being sold as one, so please allow sufficient time to do this before the start of bidding.

The Auction Lot Card form is available on the NJACE website so you can print what you need and fill them out in advance:

<http://www.corvair.org/.../a.../Auction%20Lot%20Cards%202018.pdf>

But you can also get blank lot cards that day.

Each attendee will be issued a Bidder Number by which the auction desk will track all purchases.

We ask that items being offered be limited to Corvair parts or Corvair-related items, only. Also, we ask that you not bring more than one of the same item to sell. You can, however, sell multiple items in a "lot." You could offer, say, one lot of six oil filters, instead of six individual oil filters.

Remember that only quality items sell easily. Greasy, rusty, bent and broken pieces have limited appeal.

The club will deduct a 10% commission on all sales. You may also donate items for the full benefit of the club.

Did we mention that lunch is included at no charge?

Now, what about that "Snow Date?" We will invoke the Snow Date only if the weather makes traveling difficult or if accumulated snow has rendered the Ashley's parking lot inaccessible. Generally speaking, you can assume that the event is "on," but if it is necessary to postpone we will get the word out via email, Facebook, and the club web site.

Ashley's Auto Body is located at 274 Hillside Avenue, Flanders, NJ 07836.

See you there, and bring a chair!

LVCC Classified Ads!



For Sale: 1965 Corvair Monza Sport Coupe. 110 hp Powerglide. Factory A/C. Evening Orchid paint. Approx. 60,000 miles. One owner for the past 37 years. New show-quality paint. All engine tin and suspension parts have been powder coated. Front disc brakes. Clark's AM/FM digital radio. Dual rear speakers. Rear antenna. A/C condenser relocated to 1966 position. Several additional features. \$14,000. Location: Clinton, South Carolina. For more info contact Jerry Lopez at (864) 547-1015.

Parts for Sale! Don Reinert, one of our members, would like to sell a number of items from his inventory of used parts.

- 1966 Front End Assembly: Complete with cross-member, upper A-arms, lower A-arms, brake reaction rods, springs, shocks, backing plates, spindles, wheel cylinders, etc. Basically, an entire front suspension assembly but without the steering linkage (also being offered for sale separately). Used except for the brake linings.
- 1966 Steering Linkage. Includes drag link, steering arms, idler arms and pitman arm.
- 1966 Rear Cross Member. The "yoke".
- 1966 Gas Tank with Filler Tube. Comes with filler tube and working sending unit.
- 1966 Right and Left Training Arms. Includes backing plates and hubs.
- 1966 110 Motor # T0922RA. Engine is completely intact and turns freely.
- 1966 140 Engine. Partially disassembled long block. Includes heads, bell housing, etc. Appears to be solid.

Prices are negotiable. With the exception of front brake linings, the parts are used. You can reach Don by phone at (610) 367-6830 or by email at dgreinert@comcast.net

For Sale: Parts, Parts, Parts New Parts Brakes Hoses, Air Filters, Oil Filters, Tune-up Parts, Brake Shoes, Shocks, Tail Light Lenses, Gaskets, Plugs, Cables, Choke Pull Offs, Electrical Switches, gas filters, caps, backup switches, suspension parts, Engine Bearings, Valves, Emblems, Exhaust, Turbo Parts, Patch Panels, Early Bezels, Head Studs, 140 Exhaust Extractors, Y Pipes, Mufflers, Fuzzies, Clutch Cables, Lower Bracket, Heim Joints, Models, Magazines, CORSA Magazines, Hot Wheels, Racing Champions Cars and much, much more. Contact Larry for pricing. Used parts Too many to list. Also – Corvair maintenance and repairs, October through March Larry Asheuer Call 267-994-1569 or email a-lcorvair@msn.com

For Sale: 1964 Greenbrier. 95 hp 3 spd. 105,000 on odometer. Located in Delaware. \$4,500.00 obo. Brand new complete brake system master cylinder lines shoes everything. Motor running and just resealed, rebuilt carbs. Complete fuel system redone with new rubber lines and tank cleaned. Starts first time. Body in great shape. Needs axle seals, shocks and some hinge pin work. Body work done (not a great job) in 80's and stored in barn since 1990. Some body filler in spots but not bad. No rear seat. Tires are 95% new. It does have rust underneath from wet floor in barn. (302) 377-5268.



Local Car Shows and Other Events

Friday to Sunday, January 19 to 21, 2018 :::: Auto Mania Flea Market

Location: Allentown Fairgrounds, 302 North 17th Street, Allentown, PA 18104. Hours: Fri. 12 PM - 9 PM, Sat. 9 AM - 6 PM, Sun. 9 AM - 3 PM. The 59,000 square foot facility that is Agricultural Hall at the Allentown PA Fairgrounds plays host to a wide array of vendors and attendees annually. This event is a great opportunity to interact with likeminded enthusiasts in a family friendly atmosphere and is the perfect setting to buy, sell and trade all things automotive. Auto Mania not only has a swap meet, there is a car corral too. Sponsored by Carlisle Events. Contact: (610) 433-7541.

Saturday February 17, 2018 :::: NJACE Annual Parts Auction!

Brought to you by the New Jersey Association of Corvair Enthusiasts. Details are provided in the January issue of LVCC's Fifth Wheel newsletter.

October 28 2017 to March 31 2018 :::: "They're Only Original Once, Survivor Cars"

Location: America On Wheels Museum, 5 North Front Street, Allentown, PA 18102. Call 610-432-4200 or visit <http://americaonwheels.org> for time, map and directions. America On Wheels Museum is excited to announce the debut of the Changing Exhibit Gallery, "They're Only Original Once, Survivor Cars." The Gallery will showcase 12 totally un-restored vehicles. "These well maintained original vehicles are the standard by which restored vehicles are judged. They are the definitive document on how they were actually assembled at the factory as well as the parts and finishes that were used," states Alan Gross, Exhibit Chair.

NOMINATIONS FOR OFFICE!

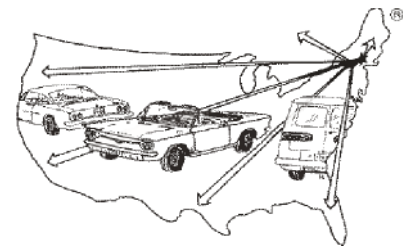
In accordance with our bylaws, we are now accepting nominations for officers for the coming year. Please take a moment to submit your nominees for 2018. We are accepting nominations for the positions of President, Vice President, Secretary/Treasurer, and Activities Director. You may submit nominations for any or all of these positions. You can even nominate yourself!

Submit your nominations by e-mail or postal mail to Dick Weidner, our Secretary/ Treasurer: Here is his contact information: Richard C. Weidner 2304 Main Street Northampton, PA 18067 anythingvair@yahoo.com.

Elections will take place at our January meeting. If you haven't made up your mind before then, you can even nominate yourself at the meeting. Please participate in this very important process.

Clark's Corvair Parts®

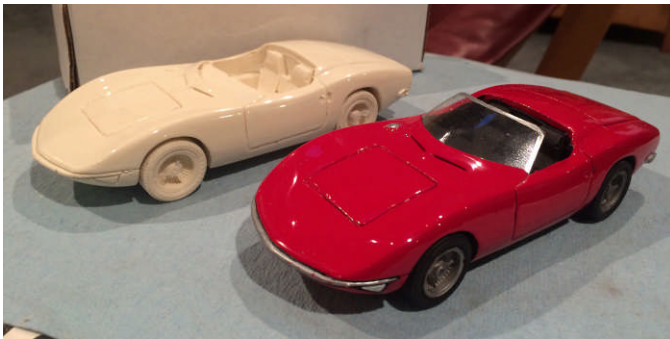
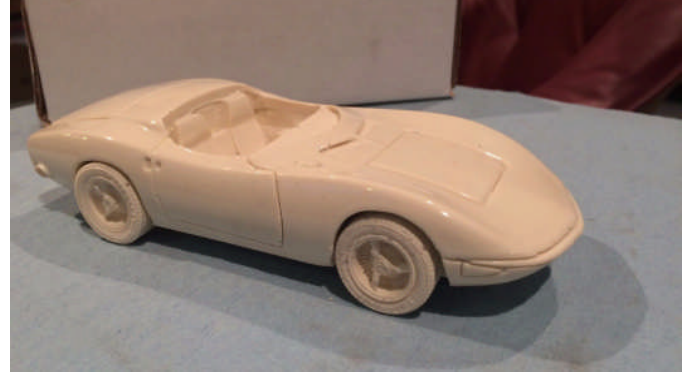
Our catalog lists over 15,000 parts for your Corvair. We carry engine parts, body panels, upholstery and much more! There are 1,000's of reproduced items available, pages of technical information and lots of other helpful hints.



Check us out at www.corvair.com or call today to order a copy of our printed catalog. You will quickly see why we are the world's largest supplier of parts and all your other Corvair needs. Clark's - More than Parts!

Clark's Corvair Parts® 400 Mohawk Trail, Shelburne Falls, MA 01370
(413)625-9776 www.corvair.com email: clarks@corvair.com

Clark's supports LVCC by donating gifts every year for our door prizes at Das Awkscht Fescht.



On eBay.... Ebay seller jmswhidbey is offering this resin kit for \$207.50 plus shipping. According to the ad, this is a 1/24 scale resin model of the Corvair Monza SS concept car based SD designs. The wheels are precision drilled and mounted on their axles and easily removable for painting and roll nicely. You need decent model making skills to be able to build this to a high level. Model is very complete and contains all the parts you will need to build the car. The photos above include a picture of the real Monza SS for comparison.



LVCC Officers

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