

niagara frontier



corvair

club

VOLUME 52, NUMBER 3

March, 2024

Formed By And For Those Who Still Appreciate The CORVAIR Automobile

*** Celebrating our 51st anniversary 1973 - 2024 ***

Building a modded Fuel Injected 140 for my Wagon

By Tom Koprevich

Last year I put my 62 Wagon on the road and put in a temporary engine so I could work out any issues and get some mileage on it last summer. Well it has come time to build the engine that will be in in permanently.

It will use the original wagon 102 case that has been clearanced from the longer throw crank of the 140. I will be using a Otto20 camshaft, .030 forged pistons and modified 140 heads and fuel injection system.

I have already machined the heads with deep valve seats, bronze valve guides, crower springs and titanium retainers.



The Compression Ratio is 9.5:1 with a .042 head gasket and the step milled out. I am running 2 "carb" bases so I welded the secondaries shut so I can use the stock sheet metal.

Continued inside.....

Dues and Membership

Club Membership - \$10.00 per year for e-mail newsletter. Dues may be paid at monthly meeting or by mailing to:

Dick Dahmer 53 Melberry Trail, Orchard Park, NY 14127 Membership year runs from July 1 to June 30.

-----Membership APPLICATION-----

NIAGARA FRONTIER CORVAIR CLUB

NAME _____ CORSA Member? Yes/No _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

PHONE _____ E-MAIL ADDRESS _____

DATE _____

MAKE CHECKS PAYABLE TO: NIAGARA FRONTIER CORVAIR CLUB

Niagara Frontier Corvaire Club
C/O Gary Swiatowy
7838 Chestnut Ridge Road,
Gasport, NY 14067

-----ESTABLISHED 1973-----

A Chartered Chapter of the Corvaire Society of America

President	Pat Murphy	(716) 861-8749
Vice President	Gary Swiatowy	(716) 716-439-5194
Secretary	John Dawley/volunteer fill in	(716) 832-8551
Treasurer	Dick Dahmer	(716) 480-7713
Membership	Dick Dahmer	(716) 480-7713

Club Membership - \$10.00 per year e-mail newsletter, . Dues may be paid at monthly meeting or by mailing: to the Club address above .
Membership year runs from July 1 to June 30.

NFCC Events and more!

NFCC MEETING SCHEDULE

March NFCC Meeting Wednesday March 27th at 7:00 PM at the First Trinity Lutheran Church For those who want to meet for dinner at 5:30 PM before the meeting. Buffalo Wild Wings on Niagara Falls Boulevard.

Anyone interested please let me know ahead of time so I know how big a table to get.

April meeting Wednesday April 24th. At 7:00 PM (location to be announced)

May meeting Wednesday May 22nd. At 7:00 PM (location to be announced)

June meeting Wednesday June 27th. At 7:00 PM (location to be announced)

In case you don't know. There are newsletter options.

Your membership includes our monthly NFCC newsletter, but you also have the option to receive several other clubs newsletters as well. This could be 10 or more additional Corvaire club newsletters from across the country, filled with cars for sale, tech tips and more. Most of you already receive the additional newsletters, If you are not receiving them, and want them you have to let me know by e-mail. If you are receiving them and do not want them, you have to let me know that as well by e-mail.

gswiatowy@rochester.rr.com





From the editor.....

Due to circumstances beyond our control, the February meeting was cancelled. Our President and Treasurer had conflicts which would have left just me. Highly unlikely we would have had a quorum. There was also the threat of severe weather (which didn't really happen). So it was prudent to cancel.

For our March meeting we need to vote on 2024 officers, and make some decisions on upcoming meetings and get-togethers for the coming season.

Hopefully all will go well for our March meeting, see you then..... gary

continued from front page.....



I also opened up the remaining opening to 1.5" because that will be the size of the "carb" throttle body plate. Since the motor in the car is already a Ted Brown FI system, I am making my own replacement bases that will flow more air. I am basing these mods on the Yenko carburetor mods. In a discussion with Bob Coffin he mentioned that Yenko used the throttle plates from the turbo carbs and sleeved the throat.

Since I do not have to worry about the venturi, and fuel passage flow it was a relatively easy mod.



As you can see a lot of the carb was removed!

STREET ROD & HIGH PERFORMANCE...

39th ANNUAL SWAP MEET
Rods & Customs of BUFFALO

SUNDAY... MAY 3, 2024

Sanborn Farm Museum, 2660 Saunders Settlement Road
(Rt. 31) Sanborn, NY 14132

7am-2pm

Parking & vendor space on first come basis
Car related items only Car Corral
Breakfast & Lunch available on grounds
Request all covid protocols be respected !!

For info call:
Tom-716 694 0888, John- 716 628 6786

Also listed on the WNY Bike Nights & Car Cruises (WNY-BNCC) Facebook Group

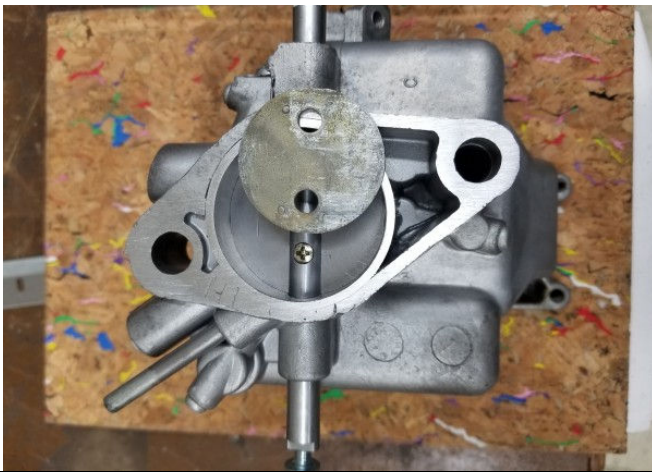
Small donation for vendors & parking go directly to Sanborn Farm Museum



Then the sleeves were jb welded in along with filling the area of the cluster that I will eventually smooth and bevel to help airflow. I then bored it out to exactly 1.500".



I had to modify the throttle plate rod to fit the larger plate, as you can see quite a difference. The plate fits great and seals well.



I still have to drill out the passages for the vacuum tubes in the base and do a few other small modifications.

I have been using the Singh Groove in all of my engine builds. I do not have an issue with detonation and I run 90 octane (maybe could run less but 90 is ethanol free). In reading and also conversation with Ken Hand, the Singh Groove is effective if the quench area is closer .035-.045, not particularly above that.

Today I cleaned the case for the 10x time 🧼.

The engine was a mouse house and their urine ate away most of the engine. I was able to save the case but that was about it! You can see what it did to the case, fortunately all the sealing surfaces were ok.



Here are 4 of the studs from the case that fortunately I was able to remove with using heat and Kroil. I have taken apart several engines and save the good studs. I used these as replacements and they tightened down nicely, also added loctite to make sure no oil leaks.



I then tested each stud at 30 ft/lbs just to make sure there were no surprises at final assembly.



Lastly I put in both gallery plugs. Don't want to forget those!

Also, If anyone is interested. Here is the build thread on the "other" site. The story of the car this motor is going into.

<https://corvaircenter.com/forum/viewtopic.php?p=1000000>

I widened the oil passages behind the main bearings to 3/32 and also added extra oil passages thru the bearings as per Seth's book. Hopefully good oil flow to the crank at elevated rpm's

Waiting on crank to come back from machine shop being ground to 10/10.



Bit more prep.

I honed the cylinders at 400 since I am using Moly rings. Used old case half and a fixture I made for the last engine I built that really needed some honing. These cylinders were already to size .004 clearance as ordered from Clarks at 280 hone.



Then washed thoroughly in hot dawn dish soap and rinsed, blown dry and then used heat gun to drive off all moisture. Then did white cloth test and no residue.



You can watch further developments on Tom's Fuel Injected 140 build here on Corvair Forum:

<https://www.corvairforum.com/forum/viewtopic.php?f=52&t=19296>

Thanks for Tom Koprevich for sharing the pictures and text on his motor build. I had material for the newsletter!.....gary

Pets Alive WNY

7007 Campbell Blvd.

Pendleton, N.Y. 14120



Saturday, August 3, 2004

raindate: Sunday, August 4, 2004

12NOON - 4PM

Gates Open/Registration: 11AM (no early arrivals, please)

\$12.00 Pre-Registration, by July 25, 2024 ~ \$15.00 Day-Of Registration

Pre-Register to enter drawing for \$25 restaurant gift certificate
Dash Plaques for 1st 50 registered cars, compliments of Niagara Frontier Corvair Club

Cruisers' Choice, Club Participation, & Sponsors' Choice Awards

50/50 Basket Raffle Coffee, Hot Dogs, & Soft Drinks Available Tunes 'n Trivia Vendor & Crafter Area

★ 1 free Premium Raffle ticket for each 12 cans of Frisbees Cat Food donated ★

FOR MORE INFO & RAINDATE STATUS: PAT/(716)861-8749 ~ JOE/(716)848-9238

I release and waive any and all rights I may have against the promoter, sponsors, participants, and attendees from any and all responsibility and/or liability for any damage and/or loss to my vehicle, display, and/or property.

NAME: _____ CITY/STATE/ZIP CODE: _____
ADDRESS: _____ PHONE #: _____
E-MAIL ADDRESS: _____ CLUB AFFILIATION: _____
CAR YEAR/MAKE/MODEL: _____ DATE: _____
SIGNATURE: _____

* please make \$12.00 pre-registration check payable to Pets Alive WNY *

* please mail to Wheels for Whiskers - Pedals for Paws, c/o Pat Murphy, 2422 Long St., Grand Island, NY 14072 by July 25, 2024 *

Save the date for this show, the NFCC is a sponsor and we have a great turnout of members. There is a neat basket raffle as well. \



Thursday Night

Cruise Nights

JUNE 6 HOT RODS AND RAT RODS NIGHT

JUNE 13 BIKE NIGHT

JUNE 20 TRUCK NIGHT

JUNE 27 MOPAR NIGHT

JULY 11 VOLKSWAGEN NIGHT

JULY 18 BOB LUCIA MEMORIAL NIGHT
(CAMAROS VS MUSTANGS)

JULY 25 FORD MOTOR COMPANY NIGHT

AUGUST 1 JEEP NIGHT

AUGUST 8 CORVETTE NIGHT

AUGUST 15 TRACTOR NIGHT

AUGUST 11 GENERAL MOTORS NIGHT

AUGUST 22 OFFROAD AND 4X4 NIGHT

AUGUST 29 STREET, STRIP, WILLY'S & GASSERS



June to August 2024
5:30 to 8:30



Main Street
Akron, NY 14001

CARS & TRUCKS | LIVE MUSIC | FOOD TRUCKS

We are excited to announce that the

West Shore Farmers Market

will be joining us in the park

www.akronchamber.org

More event flyers coming next month.....