



Heart of Ohio Chapter Newsletter

Volume 9 issue 1

The Front End

First Quarter 2012

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Chairman's Message

Merry Christmas and Happy New Year to all...

The year is coming to an end quickly. This is the time of year when we reflect on the past year and set our goals for the New Year. We lost our good friend and dedicated member Lou Miller in 2011. Be sure to keep Lou and his family in your prayers. Life is short, be sure to enjoy every minute and drive your cars whenever you can. Our New Year promises to be exciting thanks to the efforts of our events director Mike Treece. Mike has some great events planned for 2012 including judging schools, tech sessions and tours. One particular tour I am looking forward to is Marietta. We will visit the home of Doug Bergen in April to see his racing memorabilia and stories about racing Corvettes. Doug has a history back to the early days of Corvette racing and we are honored to have him as one of our members.

We had a great event in October at Richard Crary's shop in Bucyrus and in November at Highlights with John Hinckley and Kimball Midwest. Special thanks to Garry Brown for providing the facility and to John Hinckley for traveling down from Michigan and sharing his experiences at GM with us. The Swap Meet was full of vendors but a little short on buyers. Some of the vendors however did very well mainly selling to each other. Thanks to Lou Zuniga and everyone who worked to put the Swap meet together. The next event is the Christmas party scheduled for January 14th weather permitting.

If you have not already done so, be sure to put the Heart of Ohio web site <http://www.ncrs.org/hoo/index.htm> in your favorites. It has a member's page that highlights our cars, an events page with upcoming events, a page for cars and parts for sale and an apparel

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page with great clothing with the Heart of Ohio logo.

Once again Lou and I will be working on our cars this winter at the Busted Knuckle Garage located in Pataskala. I am installing an electric fan to insure my car will never overheat and dialing in a few minor details and Lou is working on getting his front end ready for painting. The plan this year is to have the cars done by April so we can actually drive them next spring. If you would like to join us just let me know and I will supply the dates we will be working.

In closing please show your support by participating in as many club events as you can. I enjoy the time I spend with the group mainly because you are such a great bunch of folks. The fellowship is the real spirit of the club. If you have technical questions this is a great place to ask. We have a wealth of knowledge in the group and are all willing to share our expertise.

Hope to see you soon!

P Yasher



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Heart of Ohio Chapter, Chairman

Mid Year Headlight Restoration Guide **(Part 4)**

Prepared by: Dale Maris (48325)

Technical Assistance by: Steve Barrett (21558)
and Joe Eyl (8722)

Assembly of Headlight Motors, Housings and reinstalling into car

Headlight Motor Assembly

Process is basically the reverse of the disassembly. Be sure to use a white type of grease, (we use Lubriplate) to lubricate the bushings for the shaft of the armature, the gears and other surfaces. Note that Duke Williams recommends a full synthetic NGLI #2 "general purpose" grease, which should be available at most parts stores. The synthetic base oil will not evaporate as fast as conventional base oil.

1. Armature inserted into motor housing being careful with the brush assembly that is soldered to the housing.
2. Install the brushes, springs and using the clips, slide the assembly down into the case over the commutator being careful not to scratch the brushes or the commutator.
3. Mount the back gear case cover using the two long bolts connect these together. The Hand Wheel is installed over the shaft on the motor case and the retainer is installed to hold it on. Run bench test shown below.
4. Gears with washers are installed into the gear case, using plenty of grease, but don't pack the entire housing.
5. The front gear cover is installed with the 4 small hex bolts.

6. Adjust end clearance with set screw to provide just enough clearance to turn freely, test for freely turning.

7. May rerun bench test again as below.

8. Motor bracket is installed with 2 slotted screws.

Bench Testing Procedure: used a 12 volt supply to test the motors. Ground the battery to the case and the electrical terminals are use to turn the motor in both direction, one terminal to open and the other terminal to close headlight housing.

Assembly of Headlight Housing

Note, the right and the left side headlight housing have different components, be sure to sort the components correctly.

1. Both the inboard and outboard shafts can be installed with the 4 small flat head screws.
2. We installed the headlight adjustment brackets, and retainer springs that you may not have removed.
3. The headlight harness is inserted through the outboard shaft. Outboard retainer must be inserted over the wires before the connector plug is installed on the wires.
4. Install the large flat washer onto the rubber seat and slip onto both inboard and outboard shaft with the metal washer facing toward the headlight housing.
5. The pivot balls can be inserted over both shafts.
6. Both inner and outer pivot housing can be place of the shaft leaving space to slide onto the valance where they will be on the outside side of the reinforcement support plate.
7. The outside stop collar can be placed over the outer shaft and loosely tighten. Final tighten must be done after assembly in the car and the headlight bucket is aligned.

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8. Install wiring harness connector to three wires coming out of outboard shaft. Note that collar must be over wires before connector is installed.
9. This unit is ready to be installed in the car and the Y-Stop bracket must be installed after the unit is in the car.



Headlight components laid out ready to reinstall

Installing Headlight Housing Assembly into Front Valance of Car

1. Masking tape edges of headlight housing to prevent chipping paint if not already completed.
2. Carefully insert headlight housing at an angle into opening in valance.
3. Slip into slots in valance support, keeping the rubber seal with its metal washer on the outside side of the reinforcement support plate (both sides).
4. Slide both pivot housing toward reinforcement support plates and align holes in housing with bolt holes in valance support. Note: the 3 holes are not symmetrical and it only fits in one position.
5. From inside the headlight housing, align large hole in housing to insert bolt through housing and into hole in the reinforcement support plate and loosely secure pivot housing.
6. Rotate headlight housing to align remaining holes to insert and lightly tighten remaining bolts.
7. Tighten all six bolts while aligning headlight housing with front valance of car. Note space

between housing and valance is even on all side and aligns with the valance.

8. Slide the collar stop tight against the outside of the ball and tighten allen screw.
9. Install the Y stop by aligning the center of the fluted section of the shaft with the mark on the Y Stop. Be sure that they Y Stop will move back and forth between the open stop and the close stop. It is very difficult to see the alignment mark, so trial and error may work best.
10. Tighten bolt holding y-stop on shaft.
11. Adjust the Y stop screws and the alignment on the shaft to get the headlight housing to open and close with the proper alignment to the valance.
12. Connect the housing wiring harness to the front light harness
13. Test that headlight housing rotates easily
14. Adjust alignment until satisfied.



Installing Headlight Motors

1. Slide motor onto shaft which may require turning the hand wheel to align the shaft on the end of the motor assembly to align with the shaft on the headlight housing assembly.



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2. Install brace from motor case to valance, attaching ground wire to this bracket where it attaches to motor.
3. Install spring clip
4. Plug in wiring harness to motor and to micro switch.
5. Test that the headlight assembly opens and closes and is aligned with valance. Readjust as necessary.



10-32 tap and die
1/4 -20 tap and die
Tap wrench
Die wrench
Small screwdriver
Hammer
Painters tape

Editors Note – Because of the length of this article I had to break it up into four parts: Removing Headlight Motors, Disassembly, Cleanup and Restoration and Reassembly and Reinstallation. This is the final section.

Winter Storage – Car in a Bubble

By Kirk McHugh



Tools Required

- 1/4" drive socket set
- 1/4" socket
- 5/16 socket
- 3/8" socket
- 7/16" socket
- 1/2' - 9/16" open end and box wrench
- 3/8' - 7/16" open end and box wrench
- 1/8" Allen wrench
- Needle nose pliers
- 6-32 tap and die (re-threaders may be preferred)
- 8-32 tap and die

I purchased a CarCapsule for winter storage of my '67 Corvette four years ago. I personally love the item and feel that it was necessary for my car for two main reasons. First, my garage is over 70 years old (I envy you guys with really nice modern garages) and isn't "sealed" very well against the elements or vermin (mice and squirrels). Second, my garage houses both my Corvette and my wife's car that she drives every day resulting in lots of moisture (rain and snow) entering the garage on a regular basis. So, since spending \$50K to build a new garage wasn't in my immediate future, I bought the 18' CarCapsule for just under \$400.00. As you can see by the pictures, I put my Vette in bubble each fall



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after I clean her up and polish and wax her for the winter. For the past two years, I have parked the Vette on flat-stopper ramps in the bubble helping to keep my bias ply tires from developing a long-term flat spot. They seem to work very well.

Here's what CarCapsule says about their product. The CarCapsule is a clear vinyl bubble that completely seals and protects your vehicle from things like corrosion, rust, dust, dirt, dings and even fingerprints. The indoor vinyl "bubble" is constructed of 10 mil anti-static, double-polished, radio frequency welded, 100% PVC and is so strong that you can bounce a 5lb. hammer off it (I actually did this and almost hit myself in the head when the hammer came flying back at me). The base of the capsule is composed of 18 oz. Herculite and is impervious to oil, gas and antifreeze, abrasion-resistant, mildew-resistant, and will not support a flame. The base mat is connected to the "bubble" by a heavy-duty 100% nylon zipper that will not scratch your car. The heart of the CarCapsule is a 12-volt, high-pressure fan that provides continuous, filtered airflow that keeps your vehicle dry and rust free by exchanging the air inside the "bubble" 3-4 times/hour (see picture below). For those that might be interested, they also make a smaller version of this bubble for motorcycles.



So, does it work? My short answer is yes. But let's take a closer look. The bubble clearly provides a great deal of protection for my car during the winter months. As I already stated, I tested out the hammer throw and it worked. As you can see from the picture, you can even stack a chair on the bubble and it doesn't touch the car. When my children were



younger, all sorts of items like bikes and scooters would end up leaning against the wall next to the Vette. The bubble keeps any of these items from ever hitting the car and that's a very good thing. Even if my wife parks her car too close to the Vette and opens her car door absentmindedly, it won't hit the car because the bubble stops it.



In the four years that I've owned the bubble, I have never had a mouse or squirrel decide to live in my car's engine bay or interior even though there has been evidence of them visiting the garage. No chewed wires or nests, that's definitely a plus! Finally, although lots of dust accumulates on the outside of the CarCapsule during the course of the winter, all this dirt and grime stays out of the interior due to the filtered air flow of the capsule. This makes my pre-winter waxing look like new each spring when I take the car out of the capsule for the first time.



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Heart of Ohio Chapter-NCRS/Coughlin Charity Swap Meet

By Lou Zuniga

It was Sunday, November 20th. The Charity Swap Meet opened with cloudy skies. Vendors began setting up prior to 8:30 AM, although our published time was set for 9:00 AM. Customers began arriving early with anticipation, watching some vendors still putting up shop.



When all was said and done, we had 18 vendors selling a variety of GM pieces but mostly Corvette items for sale. The morning showed light activity of customer traffic and persisted throughout the lunch hour. Since customer traffic was light, vendors began to packing up early. Heavy rain had been forecasted, which may have contributed to the light customer turnout. Even with the smaller number of shoppers, most vendors I spoke still benefitted from their efforts and said they would return the following year.



Although the turnout was as not as expected, the Heart of Ohio Chapter-NCRS/ Coughlin Charity Swap Meet made enough in proceeds to provide a decent sum to our Rosemount charity organization.

We have additional ideas to attract customers for next year. Many radio and TV stations provide free charity advertising for public services, which we plan to take advantage of for next year's swap meet. Also, we will be asking Coughlin to post a large sign out on their property to advertise the swap meet months prior to gain more exposure. With the above ideas and more distribution to local and rural advertising at car shows, we hope to significantly boost the customer attendance.

Heart of Ohio Chapter Apparel

By Terry Buchanan

There are times after joining an organization such as the NCRS, that members like to identify their membership by purchasing clothing and accessories that have the Chapter name and logo. Our Chapter now has that opportunity through **Lands' End Business Outfitters**. Heart of Ohio Chapter **clothing and accessories can be ordered either on-line or by phone**. To order on line go to the Apparel page of our Chapter website.

www.ncrs.org/hoo/apparel.htm



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Click on **Chapter Store** and you will be taken to the Lands' End Home page. You will need to click on **Men or Women, Case, Bags or Totes, or Gifts & Accessories**. From there you will see all the different choices, colors and sizes for that clothing item or accessory.



After you have made your selections, you will be directed to logo application. You will need to select the Heart of Ohio logo which is \$8.50 per item. As you continue on to the last sections you will have 4 steps in the check-out process: 1. Shipping Information, 2. Shopping Bag Review, 3. Billing Information and 4. Order Confirmation.

Depending on the time of year your order should be shipped in two weeks or less.

To order by phone there is a toll free number to call that is dedicated to logo purchases. The number is **800-338-2000**. Refer to the Heart of Ohio customer number 4052776 and the operator will take your order or assist you with your purchase.

We hope to see more Heart of Ohio Chapter clothing and accessories around the area in the near future.

From the Membership Chairman

We had no new members join the Heart of Ohio during the fourth quarter of this year. Thus our membership number remains unchanged at 48 members.

Dues for 2012 will be payable in January. I will be emailing everybody with a notice in late December. With that notice will be an HoO Application Form for 2012. Please fill it out and return it to me with your check. If your information is unchanged from 2011 you don't need to give it to me again. However, please put at least your name and member number on the form for my records.

Please also confirm that your membership with National is current because they require that all Chapter Members be paid-up members of NCRS.

Herb Harlton

From the Newsletter Editor

In the First Quarter Newsletter I started a new feature article called **Member's Projects**. Given the size and diversity of our club there are always member projects, both big and small, going-on. This is what the NCRS is all about!



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If you have a project that you are working on I would be glad to tell the other members about it. All you have to do is email me some photos and a brief write up. I will take it from there.

Herb Harlton

Herb@Harltons.com

From the Judging Co-Chairman

Winter 2012 Meet Musings

If you want some additional judging experience, and/or to add some important judging points to your total, then 2012 is the year for you. This year there will be four Chapter meets in Ohio, one in Michigan, two in Indiana, and the closest Regional meet is hosted by the Pittsburgh Chapter in Altoona PA. Then there is the National meet in San Diego. While 100 judging points and the Master Judge black hat may seem far away for some of you (while others of you are shooting for 200 or more points), it is certainly an achievable goal. For example, we have a bunch of master judges in our chapter, including several of our members who earned it in 2011 (Herb Harlton, Terry Buchanan, and Mike Treece), and some of us who are getting close.

Below are events during the first half of 2012 that have already posted where you can earn some judging experience and points (and these are just the ones that we know about right now). Except for Nationals and some of the Regionals, the rest are within driving distance of Central Ohio. Just in case you aren't sure, here are the point breakdowns: Chapter Judging School and Tech Sessions are typically worth 1 point; Chapter meets can land you 2 or 3 points (depending on whether there is an additional Judging School or Tech Session); Regional meets can accrue up to 7 points; and the National meet can net you up to 15 points.

January 21 HOH Judging School (wheels, hubcaps, tires); January 26-28 Florida Regional Kissimmee; February 18 HOH Tech Session (NCRS website); March 8-10 Arizona Regional Tucson; March 17 HOH Judging School (paint by Jeff Bernhardt); March 30-31 Indiana Chapter Kokomo; April 21 HOH Tech Session Marietta; April 29 HOH Chapter meet; May 3-5 Northwest Regional Seaside OR; May 12 HOH at Bud's, May 19 Miami Chapter meet; June 1-2 Michigan Chapter meet; June 7-9 North Central Regional Rochester MN; and June 30-July 4 National San Diego.

So join us at some of the above events and really boost your judging experience. The biggest judged event for HOH will be our Chapter meet on Sunday April 29 at Coughlin Chevrolet in Pataskala. I know we need judges and cars, so register soon and come on out. I'll see you at one or more of these events and be sure to keep the glassy side up!

P.S. Special thanks to Mike Treece for his help in organizing our HOH Judging and Tech Sessions! And thanks to the rest of you for making this a Top Flight Chapter.!

Richard Lomax, Judging Co-Chair

For Sale by Members

1957 Chevy 210 DelRay Coupe - Frame-up restoration, original Blue Flame 6cyl.-3sp transmission on the column. 87,000 original miles, tropical turquoise color, original interior except for new headliner summer of 2010. New Coker wide white radials, new rear springs, much new chrome, and more. This '57 is fun to drive and draws much attention at shows and cruise-ins.



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Price \$24,900 or will consider trade for a C3
(Anniversary/Pace car/Collector Edition).

Dave Kapes - (740) 397-9740 - Apple Valley
(Mount Vernon, OH area)





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1970 Corvette Convertible

The car is highly optioned in Cortez silver lacquer paint code 986, with black leather deluxe custom interior trim with cut pile carpet wood grain accents, leather seating and custom door panels 403 code. It has the rare convertible shoulder belt option A85, two tops C07, both are in amazing unrestored condition, the soft top is black and the hard top is silver. The car is meant for cruising with a M40 automatic transmission, C60 air conditioning blowing ice cold, N40 power steering and J 50 power brakes, tinted glass, and has the ZQ3 base engine, 350 cubic inch 300 horsepower highly desired engine for its drivability, torque, and manners. The car has the U69 AM/FM radio as well as the UA6 alarm system. The car came with PU9 raised white letter tires on original dated rally wheels and original trim rings and top hats, and the tilt telescopic steering wheel N37. The car has a 3:08 rear end and cruises all day long at 65mph comfortably

Price - \$34,900, Contact: Dino Lanno

614 374 6070



1966 Silver Coupe 427ci/390hp



Silver pearl with black standard interior. 4 speed, AM/FM radio, TI ignition. It has been restored and is numbers matching. Earned Top Flight at the 2011 Ontario Regional. \$80,000 rock bottom.

Contact Tim Bourke at 614-270-7921 or at tbourke@columbus.rr.com.

Heart Of Ohio Members - Got Something To Sell?

Why not run a **FREE** Ad in our Newsletter. Send you information to;

Herb Harlton

614-847-0774

Herb@Harltons.com



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Calendar Of Corvette Events

Dates in Bold are Heart of Ohio Chapter Events *Note –Some of 2012 Events are still in the early planning stages but mark your calendars anyway. We will keep you posted on any changes via the **Events Page** on our **Website***

Dates underlined are other NCRS chapter events

Dates in plain type are other Corvette related events

January 2012

- January 14th HoO Holiday Party - Date Tentative
- January 21, 2012 Chapter Meeting and Judging School (Wheels/Hubcaps & Tires)
Location and Time TBA
- January 25-28th 2012 Winter Regional, Kissimmee, FL (Old Town)

February 2012

- February 18 Chapter Meeting & Tech Session 10:00 am to 12:00 noon, John Wagoner
- NCRS Website and Discussion Board, Coughlin Chevrolet, 9000 East
Broad St., Pataskala, Ohio

March 2012

- March 4, 2012 Queen City Chapter Corvette & GM Swap Meet, Columbia Chevrolet,
Montgomery, Ohio
- March 8 – 10 Arizona NCRS Regional Chapter Meet, Tucson, AZ
- March 17** **Chapter Meeting and Judging School (Jeff Bernhardt on Corvette Paint)**
Location and Time TBA
- March 30-31 Indiana Chapter Meet, Kokomo, Indiana

April 2012

- April 21** **Chapter Trip to Marietta, Ohio. More details to come**



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April 29 **Heart of Ohio Chapter Meet Coughlin Chevrolet. Pataskala, Ohio**

May 2012

May 3 – 15 NCRS Northwest Regional Meet, Seaside, Oregon

May 12 **Bud's Chevrolet Corvette Cruise In, St. Marys, Ohio**

May 19 Miami Valley Chapter NCRS Chapter Meet, Dayton, OH

June 2012

June 1 – 2 Michigan Chapter NCRS Chapter Meet, Metropolitan Detroit Area, MI

June 7 – 9 North Central Regional NCRS, Rochester MN

July 2012

July 1 – 4 NCRS National Convention, San Diego, CA



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HEART OF OHIO CHAPTER OFFICERS

CHAIRMAN: Perry Yasher
740-927-0034
pcyasher@columbus.rr.com

VICE CHAIRMAN: G. Lou Zuniga
614-825-0478
gzuniga@columbus.rr.com

SECRETARY: Terry Buchanan
937- 429-3434
buchanant@sbcglobal.net

TREASURER: Randy Early
614-205-3833
rde1967427@yahoo.com

JUDGING CO-CHAIRS: Roger Zrimsek
412-655-8946
rz.redvet@verizon.net

Richard Lomax
614-793-0627
lomax.24@osu.edu

MEMBERSHIP CHAIRMAN: Herb Harlton
614-847-0774
herb@harltons.com

NEWSLETTER EDITOR: Herb Harlton
614-847-0774
herb@harltons.com



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WEBMASTER:

Terry Buchanan

937- 429-3434

buchanant@sbcglobal.net

EVENTS CHAIRMAN:

Mike Treece

(419) 576-7606

mltreece@yahoo.com

DIRECTOR AT LARGE:

James Salvino

614-766-0077

jsalvino@columbus.rr.com



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NEWARK | PATASKALA | JOHNSTOWN | HEATH | CIRCLEVILLE | CHILLICOTHE | MARYSVILLE



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