



## Heart of Ohio Chapter Newsletter

Volume 8 issue 2

The Front End

Second Quarter 2011

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### Chairman's Message

Greetings to all...

Spring is a week old and I hope it warms up soon, because I definitely have the need to drive a Sport Car Jones. We just returned from an NCRS judging school trip to Richard Crary's shop in Bucyrus. Richard showed us his newest project, a 1967 Coupe which is well under way to a full restoration. If you have not been to Richard's you may want to consider going the next time since we have been invited back when the frame is restored.

Richard says he will be able to start the engine on the chassis – how cool is that! In addition to the 1967 Coupe Richard has 4 other Corvettes, a T Bird, a Viper, a Pacer a Fairlane and a Hot Rod Pick Up.



During the month of April we have a Swap meet at Buds Chevrolet on April 3rd. We also have a membership meeting and technical session at Performance Auto Spa on April 9th. The technical session will feature tips on how to detail your car for a judging meet. A non NCRS event April 30th is the Inaugural Spring Nostalgia Nationals, car show and swap meet at National Trails Drag Strip in Kirkersville. If you are a fan of vintage drag racing this is a must attend event.

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May 7th there is a Car Show and Cruise In at Buds Chevrolet in Marysville Ohio. Corvette delivery technician Bruce Robel from the National Corvette Museum will conduct a technical session on various aspects of the assembly line process, differences in current models and improvements made during the C6 run. He will also review the new car museum delivery program and how to launch the car at 3,000 RPM with hands on session. OK – I made up the part about pulling hole shots. The Heart of Ohio Chapter judging meet will be on May 15th at Coughlin's Chevrolet. We have moved the date from August to May to allow folks who want to have their car judged at a regional or national meet a chance to make corrections prior to. If you have not registered yet, please take a moment to do so soon. If you would like to help we are in need of Judges and tabulators.

Please keep an eye on the Heart of Ohio web site for details on all upcoming events. If you have technical questions the members are a great group



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to ask. We have a wealth of knowledge in the group and are all willing to share our expertise.

P Yasher  
Heart of Ohio Chapter  
Chairman

### Mid Year Headlight Restoration Guide\*

Prepared by: Dale Maris (48325)

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

#### Disassembly Steps

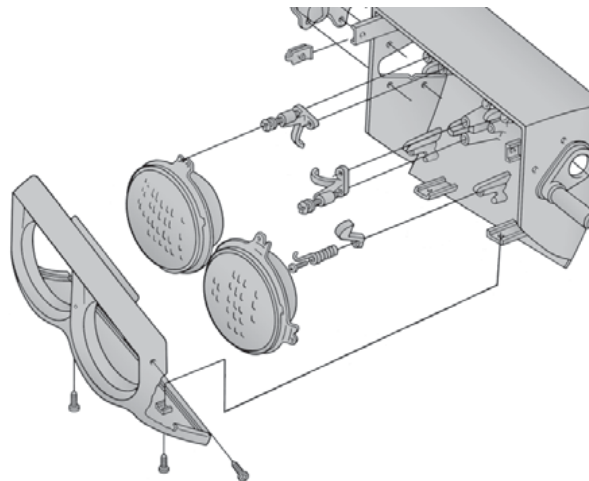
**Remove Hood** for better clearance to work under nose of car. Optional, but recommended.

#### Removal of Headlight trim and bulbs

1. Open Headlight Buckets
2. Remove Headlight Bezels by removing 4 screws for each side and pulling off bezel.
3. Remove Headlight bulbs by removing headlight bulb ring, small screws and spring.
4. You don't need to remove or adjust the headlight adjustment screws.
5. Remove headlight bulbs from wiring harness connector and remove bulbs and the cups. No need to remove headlight adjustment brackets (we replaced our adjustments brackets)

Note, the removal of the headlight buckets will be done after the motors are removed.

*Editors Note – Because of the length of this article I had to break it up into four parts: Disassembly, Rebuilding, Reassembly and Reinstallation. The other sections will appear in future newsletters.*

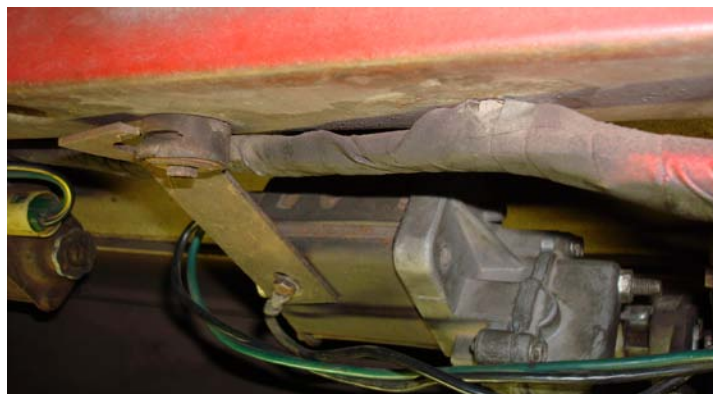


#### Removing headlight motors

1. Slightly open headlight buckets to remove pressure on motor
2. Remove wires from, motor and micro switch (indicates buckets are in down position)
3. Remove Headlight Motor Brace (under front valance of car)

Brace supports headlight assembly with rubber grommet

Ground wire is attached to brace and screw to Headlight Motor



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Remove sprint clip holding motor to headlight bucket mechanism

Motor will now slide out, shaft fits into headlight bucket mechanism



Remove both wires from micro switch by pulling straight away.

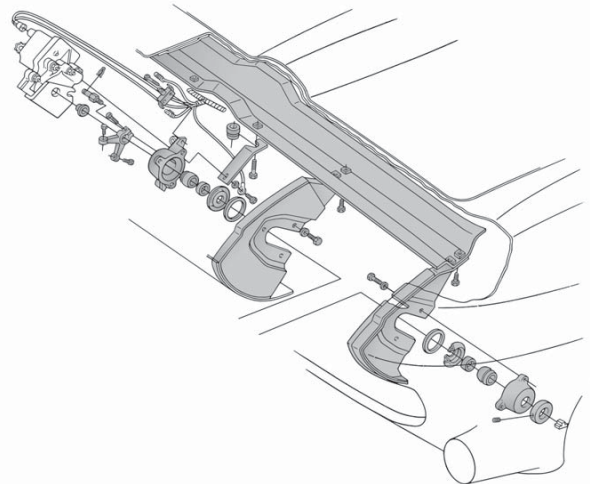
### Removing Headlight Housings -

#### Removing Headlight Housing Buckets

1. Recommend masking tape along edges of headlight buckets and valance to prevent damage to paint during disassembly
2. Remove Y-Stop, Loosen clamp screw, spread clamp (being very careful not to split too far or it will bread). Carefully work off of shaft.
3. Unplug headlight wiring harness (outboard side of headlight assembly)
4. Loosen outboard stop collar set screw with 1/8" allen wrench
5. Remove stop collar from outboard shaft (collar will not go over wiring connector at end of harness, see later)
6. Loosen Pivot Support screws, 3 inner, 3 outer. Must rotate bucket to align hole in bucket to access screws.
7. Slide inner pivot housing away from reinforcement support plate.

8. Slide outer pivot housing away from reinforcement support plate.

9. Headlight Housing Assembly will now come out of the car pushing to rear of car, then angling to remove from front valance.



Removing the support brace from the radiator support to the front valance will provide more room and help ensure not scratching your headlight housing and or valance paint.

**BOTH THE HEADLIGHT MOTORS AND THE HEADLIGHT HOUSING ASSEMBLY ARE SUCCESSFULLY REMOVED FROM THE CAR.**



### Member's Projects

Richard Crary recently started the frame-off restoration pictured on the next several pages. The car is a small block '67 air coupe, with electric windows, PS, PB and tinted glass. He is the third owner of this "numbers matching" car and it came complete with Protecto-plate.

The pictures that follow are various steps in his disassembly.



*Frame waiting to be sandblasted.*



*Small parts waiting to be cleaned or bead blasted.*



*Large parts waiting to be sand blasted.*



*Gas tank being sandblasted.*



*Frame parts after sandblasting.*



*Frame being sandblasted.*



*The doors, windshield, wiring, seats etc. etc. have been removed from the body and the paint has been chemically removed. Richard has been repairing cracks in the fiberglass and getting the headlight buckets to fit.*



*Frame after sandblasting.*





*The hardest thing to disassemble on a corvette coupe is removing the window glass and window tracks from inside the doors.*

### Member Tools, Parts and Repair Tips

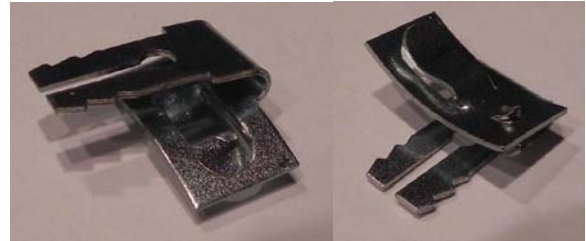
**By Norm Yager**

**Tool Suggestion** - Recently I have been using a socket wrench accessory called a "wobble extension". This is a socket extension that provides about 10 degrees of universal joint action. They are available from Sears Craftsman in various lengths and in 1/4, 3/8, and 1/2 inch drives. The one I use frequently is a 3/8 drive, 1 inch long, cat. # 44282 (left picture). The right picture shows the wobble extension with a deep socket to demonstrate the angularity.



**New Reproduction Part** - A repro part that has just become available is a wire clip that supports the Directional Signal Wiring Harness Plug to the upper part of the steering column. There is a hole

in the top of the column to accept this clip. It is available from Long Island Corvette Supply as item #18-20F and applies to 1964 - 1966 cars.



**Improvised Alternator Fix** - I decided to remove the Alternator from my '64 in order to freshen up the cosmetics, i.e. remove the clear coat applied in 1981 that has yellowed. This required disassembly of the Alternator which is a 5.5 inch aluminum Delcotron, #1100668. See picture below.



The stator coils are electrically connected by 3 wires. These wires connect to 3 studs in the base of the alternator. Each stud is pressed into a square white plastic insulator. Two of the retaining nuts loosened on the studs, no problem. The third nut would not loosen and the stud pulled out of the plastic insulator. With the bottom of the stud exposed I used a small size vise-grip together with a socket wrench to loosen the nut.

The plastic insulator on that 3rd location was black in color and disintegrated into many pieces.



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The four electrical conductor tabs that are located here were all corroded which resulted in a high resistance connection, hence the overheated plastic insulator.

So this part needed to be replaced and the problem was where to find it. I started the search in my local hardware store by looking through all the small parts bins for plastic parts. I found one bin with square plastic license plate retaining nuts. I needed a part 3/8 inch square and found one marked "for GM cars".

I next epoxied the stud to the square plastic retaining nut, see pictures below.



After a 24 hour epoxy cure I tried to push the square nut into the square hole and it would not go in the hole. I then filed the square smaller so that I achieved a light press fit into the hole. See picture below.



Problem solved, I was now back to where I started.

### 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](http://www.ncrs.org/hoo/apparel.htm)



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.



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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

A few members have not yet renewed their Chapter Membership for 2011. If you are one of them, please take a minute soon and do so. If you are unsure about your renewal status or need a form drop me an email – I will be glad to let you help you.

There will not be any more reminders from me.

Thanks.

Herb Harlton

[Herb@Harltons.com](mailto:Herb@Harltons.com)

### From the Newsletter Editor

Last Quarter 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!

Also, this quarter, at the suggestion of and with the help of Norm Yager, I started another new column – **Member Tools, Parts and Repair Tips**. This will be a great way for members to share knowledge and I hope some of you will contribute.

**I need your input! I would like to continue these two features every quarter and I need your help.**





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Please email me pictures of your projects along with a brief write-up of what you are doing and any tips you have learned along the way.

I think these features will be of interest to many of you and I would like to offer them quarterly.

Herb Harlton

614-847-0774

[Herb@Harltons.com](mailto:Herb@Harltons.com)

### **For Sale by 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](mailto:Herb@Harltons.com)



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### *Calendar Of Corvette Events*

**Dates in Bold are Heart of Ohio Chapter Events** *Note –Some of 2011 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

#### April 2011

April 1 – 2<sup>nd</sup>      Indiana Chapter Judging Meet, Franklin, Indiana

April 3<sup>rd</sup>      Corvette and Chevy Swap Meet, Bud's Chevrolet, St. Marys, Ohio

**April 9<sup>th</sup>**      **HoO Judging Seminar, 9:00 a.m., Performance Auto Spa, 7640  
Commerce Place, Plain City, OH 43064**

April 28 – 30<sup>th</sup>      Heart of America Regional, Joplin, Missouri

#### May 2011

**May 7<sup>th</sup>**      **Bud's Corvette Show, Cruise In and Technical Seminar, Bud's Chevrolet,  
St. Marys, Ohio**

**May 15<sup>th</sup>**      **Heart of Ohio Chapter Judging Meet, Coughlin Chevrolet, Pataskala, OH  
(Registration Form attached)**

May 19 – 21<sup>st</sup>      Central New Jersey Regional, Wildwood, New Jersey



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May 21<sup>st</sup>                      National Road Corvette Club "All Corvette" Car Show, Steve Austin Auto Group, Bellefontaine

### **June 2011**

June 9-11th                      Ontario Canada NCRS Regional Meet, London, Ontario, Canada

June 18<sup>th</sup>                      Miami Valley Chapter Judging Meet, Voss Chevrolet, Centerville, Ohio

June 23-26<sup>th</sup>                      Bloomington Gold, St. Charles, Illinois

June 24<sup>th</sup>                      Drive Your Corvette to Work Day

### **July 2011**

July 17-22<sup>nd</sup>                      NCRS National Convention, Novi (Detroit), MI

July 30<sup>th</sup>                      **Heart of Ohio Chapter Road Tour, Merschons World of Cars, Springfield, Ohio (More details to come)**

### **August 2011**

August 7<sup>th</sup>                      Lake Erie Chapter Judging Meet, Tim Lally Chevrolet, Bedford, Ohio

**August 21<sup>st</sup>                      Heart of Ohio Chapter Picnic (More details to come)**

August 26-28<sup>th</sup>                      Corvettes at Carlisle, Carlisle, Pennsylvania

### **September 2011**

### **October 2011**





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October 16<sup>th</sup>      Restoration Station All Corvette Road Tour, Springboro, Ohio

October 22<sup>nd</sup>      Queen City Chapter Judging Meet, Columbia Chevrolet, Montgomery, Ohio

### **November 2011**

November 20<sup>th</sup>      Heart of Ohio Corvette and Chevy Swap Meet, Coughlin Chevrolet,  
Pataskala, Ohio

### **December 2011**



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### **HEART OF OHIO CHAPTER OFFICERS**

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www.CoughlinCars.com





**HEART OF OHIO SPRING CHAPTER MEET  
INDOOR MEET REGISTRATION FORM**

**Sunday May 15, 2011 – 10:00 am-5:00 pm  
Coughlin Chevrolet - 9000 East Broad Street - Pataskala Ohio 43062**

**Check Our Chapter Website for the  
Latest Meet Information, Registration  
Form, Meet Contacts and Map  
[www.ncrs.org/hoo](http://www.ncrs.org/hoo)**

**The Heart of Ohio Chapter invites fellow NCRS members to join us at our indoor Chapter meet at Coughlin Chevrolet, Pataskala, Ohio.**

Name \_\_\_\_\_ Spouse/Guest Name \_\_\_\_\_ Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_ Home Phone (\_\_\_\_\_) \_\_\_\_\_ NCRS # \_\_\_\_\_  
Email Address \_\_\_\_\_ Cell Phone (\_\_\_\_\_) \_\_\_\_\_

**COST**

Meet Registration (Member & Spouse/Guest) \$ 20.00  
Additional Guest @ \$10.00 per person x # \_\_\_\_\_ \$ \_\_\_\_\_  
Flight Judging Entry @ \$40.00 \$ \_\_\_\_\_  
**Bowtie, Duntov & McLelland Display** No charge  
Sportsman Display @ \$10.00 \$ \_\_\_\_\_  
Join the Heart of Ohio Chapter @ \$20.00 \$ \_\_\_\_\_  
Meet T-Shirt Size \_\_\_\_\_ Extra Shirt @ \$10 ea. \$ \_\_\_\_\_  
**Total Amount Remitted** \$ \_\_\_\_\_

**JUDGES INFORMATION**

I would like to judge: 1<sup>st</sup> Choice \_\_\_\_\_ 2nd Choice \_\_\_\_\_  
(Class: C-1 through C-4) /Category: Interior, Exterior, Mechanical, Chassis, Operations)  
NCRS Judging Level \_\_\_\_\_  
I would like to be an Observer Judge: Yes \_\_\_\_ No \_\_\_\_  
I would like to help Tabulate: Yes \_\_\_\_ Name \_\_\_\_\_

**Make checks payable to: Heart of Ohio Chapter – NCRS and mail to: Herb Harlton; 792 Olenhurst Ct; Columbus, Ohio 43235**

**PLEASE NOTE: WE RESERVE THE RIGHT TO LIMIT THE NUMBER AND CLASS OF FLIGHT CARS. NO JUDGED CAR REGISTRATIONS ACCEPTED  
AFTER APRIL 23, 2011. PREREGISTRATION DATE IS BASED ON POSTMARK DATE. For Questions Contact Herb Harlton: [Herb@Harltons.com](mailto:Herb@Harltons.com)**

**JUDGED/DISPLAY CAR INFORMATION**

Year \_\_\_\_\_ Body Type \_\_\_\_\_  
CI/HP \_\_\_\_\_ Complete VIN No. \_\_\_\_\_  
Insurance Company \_\_\_\_\_ Policy No. \_\_\_\_\_ Expires \_\_\_\_\_

**SCHEDULE:**

9:00 a.m-9:45 am.....Check in at Meet  
4:30 p.m.....Award Presentations

**LUNCH**

Lunch will be provided for all registered owners, registered  
guests and registered judges

**YOU MUST ENCLOSE PROOF OF INSURANCE WITH YOUR REGISTRATION OR YOUR REGISTRATION WILL BE RETURNED.**

I agree to insure my vehicle against loss, damage, and liability and to provide proof of such insurance to NCRS. I agree to assume the risk of any and all damages or injury and to indemnify and hold harmless NCRS, its officers, directors, agents, employees and chapters for any acts or omissions which may result in the theft, damage or destruction of my property or injury to me or others occurring during or as a consequence of this chapter, wherever located.

**Signature** \_\_\_\_\_

**Date** \_\_\_\_\_