



# Heart of Ohio Chapter

## Newsletter

Volume 13 issue 1

The Front End

Q1 2016

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### Chairman's Message

Greetings,

As I sit here on December 23<sup>rd</sup> the temperature outside is 60 degrees and I wonder why did I put away the cars? The lack of snow and warm weather is my fault because I took the mowing deck off the tractor mid November and put the snow blower on. I have a feeling we will pay for this warm weather come spring. If nothing else I will have to brush hog the yard.

The Christmas party was well attended with about 20 folks in attendance. Thanks to Eric Sponseller for putting together the event. All the name tags are in so if you ordered a name tag they will be available at the events. We will also be passing out the participation award shirts at the events. Hopefully they will be in before the January meeting. We have some great events over the next 3 months to help pass the time until we can go outside again.

The first event is scheduled for January 16<sup>th</sup>. In the morning we will have a Judging School at Performance Auto Spa in Dublin Ohio. In the afternoon we have been invited to *meet the EcoCAR 3 team at OSU* and take part in the official vehicle unveiling at the Center for Automotive Research. EcoCAR 3 is a four-year automotive engineering competition sponsored by the U.S. Department of Energy and General Motors and managed by Argonne National Laboratory. This year, The Ohio State University will compete against 15 other university teams to redesign a new Chevrolet Camaro into a hybrid-electric car. The team will reengineer vehicle powertrains to meet energy and environmental goals while maintaining the muscle and performance expected from this iconic American car. Sounds like a great event and maybe they will let us take the car out to do donuts in the parking lot. ☺

Our second event is February 20<sup>th</sup> when we will conduct a Judging school at a location yet to be determined. On March 19<sup>th</sup> we will visit Lingenfelter Performance in Indiana. I have never been there but others have said it is a must see if

you are into Corvettes, muscle cars or other exotics. April 2<sup>nd</sup> we will have our first of two judging meets for 2016. We will be meeting at a new location, Nelson Auto Group in Marysville. If you have never been there it is a pretty cool place – lots of old and new collector cars. Please mark these dates on your calendar. Thanks to Mike Treece for planning all the great events!

Hope to see everyone this year – please come out and support the club. The folks in this club are very knowledgeable when it comes to Corvettes and just a great group to hang out with. Also don't forget the club supplies lunch at most events – what could be better than that!

Perry

### HoO Chapter Dues –It's That Time!

**Just another friendly reminder that December is Dues Renewal Month** for our Chapter. Chapter dues are still only \$20 and there are two ways to pay. You can renew your membership electronically and pay by credit card (preferred method) or paper renewal and mail a check. To renew your Chapter dues go to our Membership page at:

<http://www.ncrs.org/hoo/membership.html> and click on the method you prefer to use. As reminder, you must be a current National NCRS member first, to be a member of any Chapter.

For any questions, please contact our Membership Chairman, Butch Price at 614-204-4366.

Happy Holidays,

Terry Buchanan  
Secretary, Heart of Ohio Chapter NCRS



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### Membership Report-Butch Price

Membership: All new HOO members from LEC are paid for 2016 and all but 23 total members have paid for 2016. The deadline for payment is Feb. 1/2016. There were 86 active members in 2015.

Have a Merry Christmas and happy new year. I look forward to seeing you at our first Jan. event- Butch

### Treasurer's Report- Eric Sponseller

Beginning Cash Balance 1/1/15:	\$3,462.32
<b>REVENUE:</b>	
Membership Dues:	\$7,930.87
Chapter Meet Registration Fees:	\$1,106.00
Checking Account Interest:	\$0.00
Event Fees:	
Charity Car Show Income:	\$990.00
Advertising:	
Merchandise Sales:	
Total Revenue:	\$10,026.87
<b>EXPENSES:</b>	
Newsletter Expense:	
Operations & Planning:	\$1,469.54
Judging Meet Expense:	\$1,723.50
Charitable Contribution:	\$1,140.00
Charity Car Show Expense:	\$600.00
Paypal Fees	\$243.92
Tech Sessions Expense	\$0.00
Total Expenses:	\$5,176.96
Closing Cash Balance 12/31/15:	\$8,312.23

### Participation Awards-Terry Buchanan

Below is the list of the 2015 Chapter Participation Award Winners. A note should be added( \* due to 2 months Chapter activities cancelled - 13 points were required). 2015 Final totals are on the Members only page at <http://www.ncrs.org/hoo/members.html> on the Chapter website.

Thanks,

Terry

1. Terry Buchanan
2. Richard Crary
3. Randy Early
4. Joe Eyl
5. Terry Keating
6. David King
7. Dino Lanno
8. Richard Lomax
9. Kirk McHugh
10. Nick Petruzzi
11. Butch Price
12. Len Sedlak
13. Eric Sponseller
14. Steve Steffensen
15. Mike Treece
16. Wes Wells
17. David Wills
18. Perry Yasher
19. Lou Zuniga

Each participant will receive a nice NCRS sport shirt with the HoO logo. Great to wear around to NCRS events and car shows. Congrats to all members.

### October-Chapter Judging Session at Perry's Garage

Perry Yasher hosted a judging seminar on C5's at his garage in Pataskala on October 17<sup>th</sup>. Nineteen members attended to review recent changes to the C5 judging criteria.



### November- Proteam Seminar in Napoleon, Ohio

Every November, Proteam Corvette puts on various sessions to discuss design and engineering elements of the Corvette. This session is widely attended by local NCRS chapters from Michigan, Indiana, and Ohio. 12 Chapter members attended from HoO.





### December- Holiday Party at Buffalo Wings and Rings

The HoO gang celebrated the holiday season at Buffalo Wings and Rings in Columbus. 20 HoO members and spouses were in attendance. A great way to end 2015!



### Tech Article- Upgrading the 1997-2001 TPS System –Tom Fetchik

It's a long story, but I ended up buying back my 2000 Nassau Blue Convertible this year. It had only 4000 more miles than when I sold it in 2005! With 14,000 miles I was concerned about the condition of the original tires as I planned to run this car on the NCM Caravan in August.

The decision to replace tires is always a concern, this time more so as I did not want to lose the original tires and wheels. Just maybe, someday, NCRS will want to judge them on the car! Fortunately I had purchased a set of spare wheels for the 2006 convertible I just sold and now had a replacement choice.

Even if I replaced the tires on the original wheels, I would need to consider the original Tire Pressure Sensors. The battery in them is good for about 10 years and it doesn't matter how many miles are on the tires. If new tires are going to be put on the car, I needed to replace the TPS in each wheel

What to do?

Reading a number of articles I came to the understanding that the 1997-2000 TP sensor was obsolete and looking around the replacement modules for the early C5's were very expensive (around \$150 each!). There are more cost effective modules for the 2001-2004 Corvette, however, the receiver module would need to change as well as the key fobs. Upgrading to the 2001-2004 system, however, did offer a better operation as the range of the fobs is greatly enhanced.

I researched the use of the larger wheels on the C5 2000 Convertible and found that the change is possible and pretty straight forward. All that is needed is a ¼ inch spacer behind the rear wheel to align them properly with the body due to the offset of the wheel

### PICTURE #1



The 2006 Wheel

There is a source for the new system including the receiver module needed for the upgrade. The parts kit can be obtained from the [gmpartshouse.com](http://gmpartshouse.com). The list of parts is as follows:

Part number PKC5TPMS - This kit includes the following:

- (1) #1 Key FOB
- (1) #2 Key FOB
- (1) Remote Control Door Lock Receiver
- (1) Remote Control Door Lock Receiver Connector
- (4) Tire Pressure Monitoring Sensors (TPMS)
- (4) Tire Pressure Monitoring Sensor Mounting Nuts

The TPS and hardware look something like this:



In case you wish to search on the individual parts, here is a list:

- 25773946 tire pressure indicator sensor, 2001-2004 - \$36.32 4 each required.
- 10312535 remote control door lock receiver, 2001-2004 - \$67.01
- 25695954 un-programmed remote control door lock transmitter, fob 1, 2001-2004 - \$41.04
- 25695955 un-programmed remote control door lock transmitter, fob 2, 2001-2004 - \$41.04
- 12102635 Connector - \$26.12

When I ordered the parts, the receiver module was on back order with no ETA. I got in a panic and starting searching hi and low for others. Eventually, the module was shipped and was able to start the installation.

I had the new tires mounted on the 2006 rims with the new upgraded TP sensors. When I started to drive, without the module, I always had the warning on the DIC that the module was not receiving data from the wheels.

### Installing the new module:

When I went to install the module the first item on my agenda was to preserve the harness an connector for the original module, just in case I needed to put the original wheels and tires back on the car.

The instructions sent with the module are very easy to follow. The only change I made was to wire the new module connector in parallel with the old connector. That way I could easily switch back to the original module when I needed to.



Original receiver with the antenna



2001-2004 receivers – no antenna



Harness splice with original connector still connected

With the new module installed, now the time was to 'program' the fobs and the TP's sensor at each wheel. The instructions in the car manual cover the programming of the Fobs and sensors.

Briefly, it is as follows:

### To match new key fobs to your vehicle:

1. Turn the ignition key to ON.
2. Clear any warning messages on the Driver Information Center (DIC) by pressing the RESET button.
3. Press the OPTIONS button on the DIC several times until the blank page is displayed, then press and hold the RESET button for two seconds.
4. When the message FOB TRAINING is displayed, push the RESET button once. The message HOLD LK + UNLK 1ST FOB in the DIC will be displayed.
5. Press and hold the lock and unlock buttons on the first transmitter simultaneously for five seconds.
6. When a transmitter is learned (matched), the DIC will display FOB LEARNED and then prompt you to learn the second transmitter.
7. Remove the key from the ignition.



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The programming mode will shut off if any of following has occurred:

You don't program any transmitters for two minutes.

You take the key out of the ignition.

#### Tire Pressure Monitoring Sensor Programming

The Tire Pressure Monitor (TPM) system interfaces with the Instrument Panel Cluster (IPC) through the serial data line. Once the program mode is accessed through the IPC, each sensor's unique identification code can be programmed into the receiver's memory. A magnet must be held close to the sensor in order to force the sensor to transmit the identification code. As soon as the receiver learns the first sensor identification code, all previously stored codes are erased from the receiver's memory.

Tool required (any medium strength magnet, U or Disk type. I used a magnet I bought at Home Depot for \$2.98

1. Turn the ignition to ON.
2. Press the RESET button in order to clear any IPC display warning messages.
3. Press and release the OPTIONS button on the DIC to scroll through the display options until the IPC display is blank.
4. Press and hold the DIC RESET button for 3 seconds.

Notice: Refer to Body Control Module (BCM) Programming/RPO Configuration in Cautions and Notices.

5. Press the OPTIONS button again until the TIRE TRAINING message appears.
6. Press the RESET button until the IPC LEARN L FRONT TIRE message appears in order to begin the programming sequence.
7. Install the magnet near the valve stem, I placed it directly behind the stem

8. The horn will sound, indicating the left front TPM sensor is programmed.

9. When the horn sounds, proceed to program the next TPM sensor in the following order as directed by the IPC messages:

- LEARN R FRONT TIRE
- LEARN R REAR TIRE
- LEARN L REAR TIRE
- LEARN L FRONT TIRE

The ignition is turned to OFF.

All four sensors have been programmed.



The 2000 with C6 wheels ready to go!



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### Upcoming Calendar of Events

Mike Treece has some great upcoming events planned for 2016.

January 16, 2016

Heart of Ohio Judging School - Corvette Radios -

10 am

Performance Auto Spa

7640 Commerce Place

Plain City, OH 43064

Lunch is provided

Meet the EcoCAR 3 Team at OSU

2:00 pm

Center for Automotive Research (C.A.R.)

The Ohio State University

930 Kinnear Rd.

Columbus, OH 43212

February 20, 2016

Heart of Ohio Chapter Meeting at Coffman

Corvettes 10:00 am

490 Dewey Ave.

Mansfield, OH 44902

[\(Coffman website\)](#)

March 19, 2016

Heart of Ohio Meeting at Lingenfelter

Performance Engineering

1557 Winchester Rd.

Decatur, IN 46733

[\(Lingenfelter Website\)](#)

As always, check the HoO website at:

[www.ncrs.org/hoo](http://www.ncrs.org/hoo) for upcoming events!





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### Heart of OHIO CHAPTER OFFICERS

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## HEART OF OHIO CHAPTER NCRS CHAPTER REGISTRATION

First Name: \_\_\_\_\_ Last Name: \_\_\_\_\_

Spouse Name: \_\_\_\_\_ Last Name: \_\_\_\_\_

Street Address: \_\_\_\_\_

City, State Zip: \_\_\_\_\_

Home Phone: \_\_\_\_\_ Cell Number: \_\_\_\_\_

Email Address: \_\_\_\_\_

National NCRS Number: \_\_\_\_\_ Note: **You must be an active member of NCRS.**

Corvettes Owned:

Year: \_\_\_\_\_ Body: \_\_\_\_\_ Color: \_\_\_\_\_ HP/CI: \_\_\_\_\_

Year: \_\_\_\_\_ Body: \_\_\_\_\_ Color: \_\_\_\_\_ HP/CI: \_\_\_\_\_

Year: \_\_\_\_\_ Body: \_\_\_\_\_ Color: \_\_\_\_\_ HP/CI: \_\_\_\_\_

Year: \_\_\_\_\_ Body: \_\_\_\_\_ Color: \_\_\_\_\_ HP/CI: \_\_\_\_\_

Year: \_\_\_\_\_ Body: \_\_\_\_\_ Color: \_\_\_\_\_ HP/CI: \_\_\_\_\_

Complete this form and enclose check or money order in the amount of \$20.00, made payable to:

"Heart of Ohio Chapter — NCRS" and send the completed form to:

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