THE BOWTIE BULLETIN

THE OFFICIAL NEWSLETTER OF THE



DECEMBER 2018 EDITION





Message from our PCCC President Club Info, News and Social Events Welcome New Members Local Car Events Feature Articles PCCC Parts & Swap Classic Car Trivia Out and About



Tim Martin's 1949 Chevy Truck

2018 has been a Wonderful Year

We are nearing the end of another wonderful year in the best car club anywhere! We currently have 113 members in our club; the most members ever, and we continue to grow. So many of these members came because one of us invited them to join when we met at a show, cruise in or we sell them one of our rides, and with that comes a new member (no names needed here).

December is a busy time for our club. December 1st is the Toys and Tots cruise in Knightdale. December 8th is our annual Christmas Party and we are returning to Angie's Restaurant again this year. The club will also supply cars for The Historic Oakwood Candlelight Tour for the 6th year, December 8th and 9th. We have several Christmas parades in the next few weeks as well. And finally, we kick off the New Year with the New Years Day cruise in at LoneStar in Knightdale.

This will also be my last message as President of Piedmont Classic Chevy Club. It has been an honor to serve and I cherish the many friends I have made as well as those that I have yet to meet. THANK YOU!!

Merry Christmas, Happy Hanukkah, Happy Kwanza and a Happy New Year to all

Barry Kitchener PCCC President

NO MEETING IN DECEMBER

Next Business Meeting Scheduled on *Monday January 28, 2019*Advance Auto Store Support Center-University Building
4709 Hargrove Rd, Raleigh, NC 27616

CLUB INFO

2017–2018 Club Officers

President - Barry Kitchener barrykit2000@yahoo.com

Vice President - Chris Peedin crystalclean67@aol.com

Secretary - Jane Overman medassist61@yahoo.com

Treasurer - Tom Doherty tdoherty@mpcllp.com

Send your PCCC Dues payment to:

Tom Doherty

4008 Ridgebrook Bluffs; Raleigh, NC 27603

For a complete listing of carshows and cruise in's Contact club member

Kaye Brady

for a complete listing of carshows and cruise in's.

kbrady.southernclassic@hotmail.com

Got an interesting project or story you would like to submit for future newsletters?

Contact Jeff Hopp at jhopp55@att.net

PCCC APPAREL

Royal Blue Polo Shirts

Including standard embroidery [\$22]

Hats

Solid Kaki, Kaki with Black Brim, Solid Black Style will be popular soft cover type and adjustable fit [\$15 ea]

Club Jacket Royal Blue

Including standard embroidery [\$46]

New 'Soft Shell Black Jacket

With lighter contrast collar [\$56]

Magnetic Engraved Name Badges [\$10.70]



Contact Larry Lewis @ 919.215.3946 or rclarry@aol.com for complete ordering details

WELCOME NEW MEMBERS

BRUCE AND BARBARA SCAMMAN
BENSON, NORTH CAROLINA

BRENT AND KATHY ROBERTS
RALEIGH, NORTH CAROLINA

PLANNED PCCC SOCIAL EVENTS & CLUB CRUISES

Saturday, December 8—The PCCC Christmas Party Angie's Restaurant, Garner, NC



Message from Carol Keith:

"We will be doing the gift exchange like we did last year. If you want to participate please bring a wrapped gift for a man if you are a man and a woman's gift if you are a woman.

I will be passing the sign-up sheet again at the December Meeting but anyone not signing can also send me an email at tedkeith@bellsouth.net with the number attending.

Thank you. Carol

Any Questions or Suggestions?

Contact Carol Keith at 919.847.5515 or David Peedin (Travel Coordinator for car cruises) at 919.612.6998

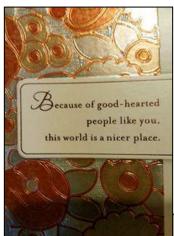
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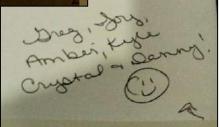
WE DO SPECIAL THINGS—Thank you from Denise Grady

In the October meeting, Max Cooper brought up that my daughter& granddaughter(2 separate households) suffered losses from the flooding in Wallace NC from hurricane Florence. My daughter had 3' of water consume their home& granddaughter lost EVERYTHING with water to the ceiling. The club proposed a donation be given to them in the amount of \$500.00. This was divided between them & oh so appreciated. This club is awesome and I'm

proud to be a member!







OFFICIAL CONVERSION CHART

HOW TO INTERPRET

ANTIQUE CAR ADS

| 2000 | Call. | 122/12 | 72 100mm |
|------|-------|--------|----------|
| 15 | ıT | CA | VC |
| 11 | | JM | YS |

IT REALLY MEANS:

Rare model...... Nobody liked them when new either Needs engine work...... It's been frozen for 30 years Uses no oil...... Just throws it out No rust...... Body and fenders missing Rough...... It's too bad to lie about One owner...... Never been able to sell No time to complete......... Can't find parts anywhere Needs interior..... Seats are gone Rebuilt engine...... Has new spark plugs May run...... But it never has Low mileage...... Third time around Stored 25 years...... Under a tree Real show stopper..... Orange with purple fenders Easy restoration...... Parts will come off in your hand Ready to show...... Just washed it Top good...... Only leaks when it rains



Submitted by Chris Peedin





PCCC TECH CORNER—By, David Smith

Years ago, A good friend (Ray Bader) introduced me to using a vacuum gauge to diagnose engine problems, in-fact it was often the first tool he would reach for when confronted with a poorly running engine. I'll admit to being a little skeptical at first, but over the years I have become convinced that engine vacuum is a great source for information in helping diagnose problems inside the engine. Of course, high-performance engines with loopy camshafts often make little vacuum but even then the vacuum gauge can give you insights to the inner workings of your engine.

Simply put, the vacuum gauge has proven itself time and time again to be an invaluable tool in troubleshooting engine problems.



The key to using a vacuum gauge to diagnose engine problems is to understand exactly what the gauge is telling you. When armed with this knowledge you'll be able to quickly discern between simple tuning issues to potentially more severe mechanical problems.

Good quality vacuum testing gauges are available at most auto parts stores and online resources, and are relatively inexpensive. Before beginning any vacuum testing, a visual inspection should be made of the entire vacuum system. Check all hoses, hose connections, and all open ports on carburetors and intake manifolds are plugged (note: some cars also have vacuum operated heat/ac controls).

To get started, hook the vacuum gauge to an intake manifold vacuum source. Manufacturers install ports on their manifolds for lots of different reasons: Brake Booster, PCV tube, EGR Switch, A/C vents, etc. You simply need to find one small enough for the vacuum gauge line to slide onto firmly. This is also done with a tee on an existing line or pulling a line and connecting it direct (for example, the vacuum line to the transmission can be used). Start your engine and allow it to come up to operating temperature before testing.



PCCC TECH CORNER—By, David Smith

COMMON VACUUM TEST RESULTS:

Normal Engine:

On most engines, accelerate to around 2000 rpm and then quickly release the throttle. The engine should snap right back to a steady 17- 21"hg vacuum.

Steady low between 5-10"hg vacuum:

This indicates that the engine has a leak in the intake manifold or the intake gasket.

Steady low between 10-15"hg vacuum:

This reading indicates late valve timing. There's a chance the vehicle has jumped timing. Check the timing belt or chain depending on the application.

Steady low between 15-18"hg vacuum:

This low reading indicates retarded ignition timing. Advance the timing on the distributor to correct this problem, and recheck vacuum.

Fluctuating needle:

A fluctuating needle indicates there's a problem with a valve or a there's an engine misfire.

Needle drops during acceleration:

If the needle drops steady during acceleration there's a restriction in the exhaust or intake. This is typically due to a clogged muffler or exhaust system.

Also see vacuum gauge chart on the next page.

Print it out and hang it on your tool box, and you'll never second guess what your gauge is telling you!

PCCC TECH CORNER—By, David Smith

GRAY NEEDLES ARE FLUCTUATING | BLACK NEEDLES ARE STEADY



Normal Motor Needle steady between 17 & 21



Normal Motor

Open and close throttle rapidly rings and valves okay.



Poor Rings or Oil Needle steady but lower than normal



Poor Rings or Oil

Open and close throttle rapidly
needle pulls down to zero.



Sticky Valve Needle drops occasionally about 4 divisions



Burnt Valve Needle drops regularly several divisions



Leaky Valve
Needle drops 2 or more divisions
when valve should close



Loose Valve Guide Fast Vibration of needle between 14 and 19



Weak Valve Guides Motor racing, needle registers 10 to 22, variations increase with RPM



Late Valve Timing Needle reads between 8 to 15 and remains steady



Late Ignition Timing Needle reads between 14 to 17 and remains steady



Plug Gap Too Close or Points not Synchronized



Leaky Intake or Carb Gasket Needle reads below 5



Leaky Head Gasket Between Cylinders Needle floats between 5 & 19



Chocked Muffler
High reading at first, Breaks to 0
and builds back to 16



Carb Out of Adjustment Needle floats slowly between 13 and 17

LOCAL DECEMBER CARSHOWS

<u>DEC 1</u>— RALEIGH/KNIGHTDALE NC - Toys for Tots Toy run from Tobacco Road Harley Davidson in Raleigh to Lone Star Steakhouse in Knightdale. Classic Car & Bike Show at Lonestar Steakhouse in Knightdale (6601 Knightdale Blvd. Knightdale NC).

<u>DEC 8</u> - FAYETTEVILLE NC - Wild Land Diesel Performance 2nd Annual Toys for Tots car/truck show. 12 noon to 4pm. 6060 Hall Park Rd. Fayetteville NC. Call 910-426-4605 for information.

<u>DEC 8</u> - GREENVILLE NC - Ron Ayers Motorsports Toys for Tots Motorcycle Ride. Registration starts at 9am. 1929 N. Memorial Dr. Greenville NC. Call 252-758-3084 for details.

LOCAL DECEMBER CRUISE-IN's and CARS & COFFEE EVENTS

<u>DEC 1</u>— CLAYTON NC - Clayton Cars & Coffee. 11407 Us Hwy 70 Bus. Clayton. Donations for Toys for Tots.

<u>DEC 15</u> - WAKE FOREST NC - Cars & Coffee Wake Forest 8am to 11am. 3229 Burlington Mills Rd. Wake Forest NC. NOTE: In Front Lot for this month (weather permitting). ENTER from Burlington Mills rd. and EXIT on to Ligon Mill. Gates will lock at 11am. Please consider donating non perishable items to the Richland Church.

<u>DEC 28</u> - FAYETTEVILLE NC - Monthly 4th Friday cruise in at the Fayetteville Transportation Museum. starts at 6pm. Historic Downtown Fayetteville

<u>DEC 29</u> - WAKE FOREST NC - Cruise night at Sonic Drive In. starts at 6pm year round event. 12509 Capital Blvd. - in Wake Forest Plaza

For More Info—Contact Kaye Brady at kbrady.southernclassic@hotmail.com







Photos by, Elke Watkins and Jeff Hopp

PCCC PARTS & SWAP

Contact the PCCC member listed below for additional details

Original heater core & blower motor for 1966/67 Chevelle. Perfect condition [\$200 for both.]; Original heater core and blower motor for 1970-72 Chevelle - perfect condition with Temp Control panel. [\$200]; O.E. "Spread Bore" 4 Barrel intake off of 1968 327 Corvette engine [\$75]
Contact <u>Pave Peedin</u> @ 919-612-6998.

62 Impala S/S hubcaps. Excellent condition (set of 4) [\$250]; Contact *Barry Kitchener* @ 919-623-7287

Two small 10 bolt rear ends for 67 - 69 Camaro or 68 - 72 Nova (273 gears, one wheel pull) - [\$225 each] Contact Jon Williams @ 919-244-6901

Chevelle Parts and Ford Model A Parts for sale— Contact *Bill Aldridge* @ **919-523-4619**

Eagle GLO-8000 storage/service lift. Runs on 110V power. [\$1000] Contact *Ted Korab* @ 919-616-0427

Edelbrock 750 Performer Carb - may need rebuild [\$60] Contact *Ray Bader* @ 919-387-0479

1973 Super Beetle Convertible, 4 speed on the floor, yellow with a black top, all original. [\$8500 OBO]
Contact *Denise Grady* @ 919-830-6509

1988 Cougar LS for sale, white with deep blue interior; fuel injected 3.8L V6, auto trans original owner, original paperwork available. Also has set of brand new Splash Guards with Cougar Logo and some spare Wheel Covers and Center Caps. [\$TBD]

Contact *Robert Andersen* @ 919-749-1454

DEVELOPMENT AND HISTORY OF THE CARBURETOR

The carburetor was invented by Karl Benz in 1885 and patented in 1886. It was apparently also invented by the Hungarian Engineers Janos Csonka and Donát Bánki in 1893. The first carburetor to use a float was developed in 1885 by Wilhelm Maybach and Gottlieb Daimler, and Karl Benz also patented a float-style carb around the same time. But, Since so many different methods of mixing air and fuel were used in the early days of the automobile, and earlier, stationary gasoline engines also used carburetors, it's somewhat difficult to pinpoint who "invented" the device.



All early carburetor designs were Surface carbs, using rotating brushes to expose gasoline to air from the intake, The first carburetor to use a float was developed in 1885 by Wilhelm Maybach and Gottlieb Daimler, and Karl Benz also patented a float-style carb around the same time.

Spray carbs started to take over right around the turn of the 20th century. Rather than relying on evaporation, these carburetors actually sprayed a metered amount of fuel into the air, where it was sucked into the intake. These carburetors used a float like Maybach and Benz's earlier designs, but they operated based on the Bernoulli principle and also relied on the Venturi effect, just like modern designs. One notable subtype of the "spray carburetor" is the so-called "pressure carburetor," which first appeared in the 1940s. Although pressure carbs resemble spray carbs superficially, they were actually early examples of fuel injection. Rather than relying on the Venturi effect to suck fuel out of a bowl, pressure carbs sprayed pressurized fuel out of valves in a manner that was very similar to a modern fuel injector.

Carburetors were the usual fuel delivery method for almost all gasoline-fueled engines up until the late 1980s, when fuel injection became the preferred method of automotive fuel delivery. In the U.S. market, the last automobiles sold to the general public equipped with a carburetor were the 1990 Oldsmobile Custom Cruiser and the Buick Estate Wagon. Until 1991 the Ford Crown Victoria Police Interceptor equipped with the 351 in³ (5.8 L) engine had an Autolite four barrel carburetor. The SUV Jeep Grand Wagoneer equipped with a 360ci (5.9L) AMC engine came with either a two or a four barrel carburetor. The last light truck to have a carburetor was the 1994 Isuzu.





































Photos by, JoAnn Hopp, Jeff Hopp & Kaye Brady