



# NEWS

## Upcoming Events

- CAM Holiday Party  
Sunday December 1
- CCM General Meeting: Elections  
Tuesday December 3
- CCM Holiday Party  
Saturday December 7
- Shriner's Toy Drive  
Sunday December 8
- CCM Board Meeting  
Tuesday December 17
- CCM Day in the Park 27  
Saturday June 27

## Bob & Mike go to Pomona !



Despite CCM Pres Bob Berry growing up in Pomona, he admits he'd never been to the drags at Pomona Raceway.

This November, he and CCM VP Mike Allen rectified that. The 2 drove down to Bob's home town and went to the Drags, catching some incredibly fast (and loud) action.

They also visited the NHRA Motorsports Museum, and cruised to Victorville and Route 66 through Barstow. They both have some interesting stories to tell, so hit 'em up.

Here are a few photos of their trip.

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### ELECTIONS ARE HERE

Elections are part of our December General Meeting. Be sure to come and vote!



# Club Information

## CCM Board of Directors

President:	Bob Berry	(916) 925-0336	rdrnrboberry@yahoo.com
Vice President:	Mike Allen	(916) 207-7746	duster@surewest.net
Treasurer:	Norman Benedict	(916) 985-8523	normanb.1943@gmail.com
Secretary:	Cindy Lenz	(916) 956-8863	cindyppearl916@gmail.com
Membership:	Richard Teerlink	(916) 631-0297	rteerlink@me.com
Newsletter Editor:	Mark Perry	(916) 956-8863	mark@chlIngr.com
Webmaster:	Anthony Garcia	(916) 985-8523	webmaster@capitalcitymopars.com
Car Show:	open - please volunteer	(916) 283-6112	carshow@capitalcitymopars.com
Activities:	Jack Porter	(916) 742-5356	jack_porter@comcast.com
Members at Large:	John Gerson		
	Steve Archer		
	Mark Perry	(916) 956-8863	mark@chlIngr.com

## CCM Staff Members

Property Manager:	Norm Benedict	Publicity:	Norm Benedict
Competition Director:	Michael Moore	Sales:	John Riordan
Historian:	Norm Benedict	Sunshine Coordinator:	Cindy Lenz
Legislative Director:	Horace Tutt		

## DODGE UNVEILS 50TH ANNIVERSARY EDITION CHALLENGERS

by Nate Petroelje, Hagerty Insurance

Dodge done done it again—there’s another special edition Challenger, this time celebrating a half century worth of smokey burnouts. The limited-run 50th Anniversary Edition of the Challenger muscle car bowed at the 2019 Los Angeles auto show. The changes are largely cosmetic, but that doesn’t make this special edition any less appealing for one of America’s last great old-school-style muscle cars.

The 50th Anniversary Edition package will be available on four different trim levels, starting with the rear-drive Challenger GT and continuing through the R/T Shaker, the R/T Scat Pack, and the ultra-wide Scat Pack Widebody models. Opt for anything but the bottom-rung GT and you’ll score a body-colored Shaker hood, something previously unavailable to Widebody Challenger customers. We think it adds just the right degree of menace.

Speaking of body color, the 50th Anniversary Edition Challengers will be offered in seven delightfully loud (High Intensity Paint, or HIP for short, according to Dodge) colors, four of which are new for the Challenger for 2020. Key among them is Gold Rush, aptly appointed as the poster-child hue for the Challengers golden birthday. The other new colors include Frostbite, Hellraisin, and Sinamon Stick. They’re joined by familiar faces like TorRed, F8 Green, and Go Mango to round out the special edition’s colors palette.

Each 50th Anniversary Edition Challenger gets a hand-painted satin black hood and a black-wrapped roof and decklid, replete with Challenger 50th Anniversary logo badges in the grille and spoiler.

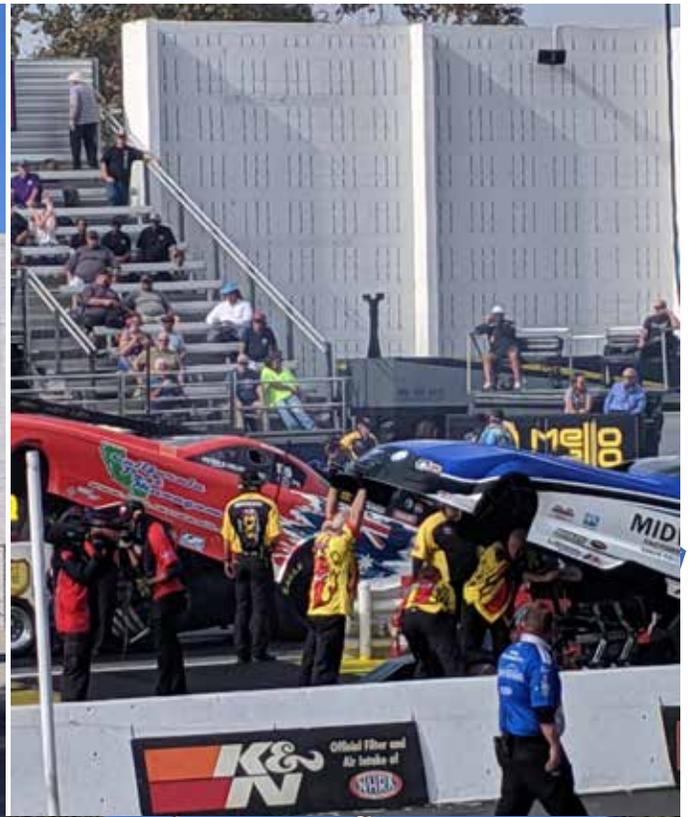
These honorary half-century Challengers also get new shoes, in the form of 20-inch “Gold School” wheels that go as wide as 11-inches in the R/T Scat Pack Widebody cars. The interiors receive a smattering of special badges on vents, seatbacks, floor mats, and more.

Buyers will have to act fast to get their hands on any of these special editions. (Math coming, work with us here.) Each HIP color will grace just 70 of each of the four trim levels of the Challenger, meaning that there will be 1660 of the 50th Anniversary Edition Challengers total. Each one will be numbered with a special plaque specifying “x out of 70.”

As other manufacturers risk muddying the waters around their iconic nameplates (ala Ford “Mustang” on their new hybrid/electric SUV), we’re happy to see that Dodge—

already the undisputed bad boy of the Big Three—seems completely comfortably leaning into this rowdy persona. Hell yeah, Dodge. Here’s to 50 more.





### Club Membership Renewal Time!

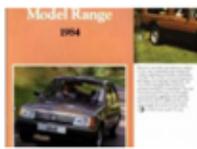
Hey! It's time to renew membership for CCM 2020! Richard is ready and waiting to receive a new membership form from you! Membership renewals provide the club with accurate metrics of our family growth. Though it may seem redundant, new applications are needed every year. E-mail, home addresses and even phone numbers can change or perhaps you added another Mopar to your stable. No matter what, the club is waiting to hear from you .

## FCA, PSA (Peugeot) to merge

CNBC just reported that the Peugeot/Citroën (PSA) board of directors has agreed to merge in a deal which puts **Fiat Chrysler** in the passenger seat—though the Fiat founding family, the Agnellis, may hold the balance of power.

The deal, according to CNBC, has already been approved by PSA, and will come up before the FCA board "Wednesday" (presumably next Wednesday, but possibly today).

headline news courtesy  
Allpar.com



## Oops: Dodge used the wrong wheels on 173 cars

Dodge accidentally put the wrong front wheels onto 173 Dodge Challengers and **Chargers**, which can cause the front tire to rub against the steering knuckle. FCA will replace the front wheels and, if needed, the front tires, and then do an alignment (if needed), under recall V80. This recall, expected to start in mid-December, will, like all recalls, be done at no cost to owners.



## 2020 Dodge Challenger 50th Anniversary Edition Debuts in LA

The Dodge Challenger was first introduced for the 1970 model year. That means that with the arrival of the 2020 model year, Challengers have been on the road for 50 years. To celebrate the golden anniversary of the **Mopar muscle car**, Dodge has introduced the 50th Anniversary Edition package for the Challenger. Offered on the GT RWD, R/T Shaker, R/T Scat Pack Shaker and R/T Scat Pack Widebody Shaker, this limited edition appearance package adds unique appointments inside and out.



## 15 million Chrysler minivans sold

The creator of the minivan has now sold 15 million of the comfortable, utilitarian vehicles, thanks partly to its continuing high market share—currently at 54%, including the Pacifica, Grand Caravan, and Voyager. **Chrysler minivans were influential enough to merit their own biography [minivan book].**

Special employee pricing on 2020 Pacificas, excluding the plug-in hybrids, starts today, making the vans more attractive. Anyone can buy or lease an eligible FCA vehicle.

## FCA lost money in the third quarter

In what might be one of the company's last financial reports, **Fiat Chrysler Automobiles** reported a net loss for the third quarter 2019, using International Financial Reporting Standards (IFRS)—or a net profit of €1.3 billion, using non-GAAP methods.

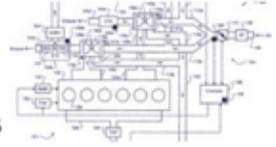
If one uses non-GAAP accounting, FCA actually had an adjusted net profit of €1.262 billion, down 6% from Q3 2018.

Worldwide shipments was down by 9%.

## Turbo straight-six to beat 372 Hemi power?

Two years ago, Allpar was the first to bring you news of the **GME T6 engine**—a true Fiat Chrysler creation, with aspects of past Chrysler and Fiat motors and engineers from both sides in the team. Last year, Allpar also noted that the new turbo-six was to meet or beat the Hemi V8 in power, possibly replacing it.

Now, *Mopar Insiders* has claimed that that the new six will be good for 525 horsepower.



## Mopar Debuts the 4th Gen Challenger Drag Pak at SEMA

While it doesn't come as much of a surprise, the big news from Mopar at the 2019 SEMA Show is the fourth generation of the **Dodge Challenger Drag Pak**. Like past versions, only 50 examples of this race-only muscle car will be produced for the 2020 model year and like past years, a supercharged 354-cubic inch Hemi provides motivation, but the Mopar team has made a handful of upgrades for the fourth gen race car that should allow it to better compete in the NHRA Factory Showdown class.



## Dodge releases Challenger 50th Anniversary and Christmas apparel

The **Dodge Challenger** was introduced for the 1970 model year so with the arrival of the 2020 model year, the **Mopar muscle car** is turning 50 years old. To celebrate the 50th anniversary, Dodge had a special event with privately owned Challengers at the Los Angeles Auto Show, where the company introduced the 50th Anniversary Edition package. It was an impressive event for everyone involved, beautifully displaying Challengers from the 1970s to the modern era.



## Win a Hellcat Challenger on Dodge.com

You could win a 2020 **Dodge Challenger SRT Hellcat Redeye** in TorRed just for answering a trivia question on **Dodge.com**, and the high performance brand will hold five of these one-question contests over each of the next five weeks, so if you can answer the question each week, you will effectively have five chances to win the 797-horsepower **Mopar muscle car**. This contest is called the Dodge Horsepower Challenge and it is being held to celebrate the success of the Power Dollars program.



## Hellion brings a sneaky Scat Pack Challenger to SEMA

Most of the cars on display at the SEMA Show are modified in a way that creates as much attention as possible, but the **Dodge Challenger Scat Pack** in the Hellion Power Systems booth was the complete opposite. In fact, when I looked under the hood of this **Mopar muscle car**, I thought that it had a stock engine. In reality, it has a twin turbo setup that is as sneaky as it gets.



## Once again, Macy's parade powered by Ram

Ram is, for the fifth year in a row, the Official Truck of the Macy's Thanksgiving Day Parade®; a fleet of over 20 Ram trucks will be towing the floats. What's more, four Ram trucks will be wrapped to complement float designs and to carry Santa.

Ram provided the Macy's Parade with 65 trucks and Ram ProMaster commercial vans, many of which are used behind the scenes.

Around 3.5 million spectators in New York City and more than 50 million television viewers see the parade each year;



## DODGE CHALLENGER GT IS THE LATEST CAR TO MAKE AWD HISTORY

courtesy Jim Koscs, Hagerty Insurance

While the new Dodge Demon has been burning up the internet, another variant of the Dodge Challenger, the GT, has been flying under the radar—even though it can be argued that it is equally as significant to the pony car history timeline. The Challenger GT is, after all, the first production all-wheel-drive pony car.

Although it lacks the performance of its rear-drive Hemi siblings, the Challenger GT is nevertheless an important step in pony car evolution and is also something of a milestone AWD car. The model should help broaden the big coupe's appeal in Snowbelt markets.





## 5 MATH FORMULAS CAR NUTS CAN ACTUALLY USE

*courtesy Kyle Smith, Hagerty Insurance*

Math is far from the most popular subject for many car folks. Who wants to be scribbling when you could be driving? The reality is, though, that there are a few formulas that come in handy. You might not even realize you know some of them, simply because you rarely write them out. We won't demand you show your work, but here are a few formulas that just might help you on your next project.

**Gear ratio:** You hear these numbers thrown around a lot in conversation, especially in the domain of performance vehicles. The final drive ratio describes the relationship between the number of turns of the input (the driveshaft) and the output (the axle/s). A simple example is 3:1, where for each three turns of the driveshaft the driven axle(s) spins once. Place a mark on the input to the differential and rotate the wheel one revolution, counting the times the mark on the input completes a full turn. Other common examples are 4.10:1, 3.55:1, or 2.73:1.

**Carb size:** It's tempting to finish up a V-8 engine swap by tightening down your favorite brand's 850-cfm double pumper, but the fact is, carburetor size matters. The cubic-feet-per-minute rating on a carburetor signifies the flow capability of said air-and-fuel mixing device, and when properly matched up with your engine you will be rewarded with peak efficiency and horsepower. (Or you can elect for retrofit fuel injection, but what fun is that?)

Calculate the cfm requirements of your engine with this formula:  $\text{cfm} = (\text{cubic inches} \times \text{rpm} \times \text{volumetric efficiency}) \div 3456$ . For reference, most stock engines have a volumetric efficiency of roughly 80 percent. Warmed-over street engines will be roughly 85, and all-out race engines can be 95 percent or better. Don't be surprised when the final number out of this math problem is a lot lower than you expect (or want) it to be. Be honest, and be sure about the maximum rpm your engine is built to handle.

**Displacement:** When you refer to an engine by a number (the Chevy 350, or Ford's 5.0), you're naming it not by configuration (V-8, inline-four, straight-six) but by displacement. In terms of piston engines, rather than their rotary combustion counterparts, that is calculated in bore (or diameter of the cylinder) multiplied by the stroke (the piston's vertical movement in the cylinder as measured at the piston's dead center), with a little pi thrown in for good measure. Most of the time the factory kindly figures this out for us, but if you bore out an engine's cylinders or swaps crankshafts you'll need to crunch the numbers to find the exact displacement. Here's the formula written out:  $\text{displacement} = \text{stroke} \times 3.14 \times (0.5 \times \text{bore})^2 \times \text{number of cylinders}$ .

**Fuse capacity:** Keeping your car from burning to the ground from an overloaded electrical circuit is quite simple using Watt's law. Specifically, this formula reads as follows:  $\text{power (in watts)} = \text{voltage} \times \text{current (in amps)}$ . You can divide the wattage draw of the device you are wiring in by the voltage of

your system and the answer is the fuse size you will need... kind of.

That is the exact current draw, meaning that if you install a fuse that exactly matches your math it will likely blow under regular use. Add 20 percent to that final figure and that will protect the system while also allowing current flow under normal operation. When calculating, be sure to use operating voltage, which can be over 13 volts even in a 12V system.

**Engine rpm:** Many classic cars are equipped with basic gauge clusters, and if the original owner didn't spring for the tachometer (assuming there was the option to spec one) you may have no idea how fast your engine is turning while cruising down the road. Sounds like it's spinning mighty fast, doesn't it? Without overdrive, many vintage engines spin higher at rpm than their modern counterparts, but here's how you can be sure of the numbers.

Find out just how high your engine is spinning at a given speed with this formula:  $\text{rpm} = (\text{mph} \times \text{gear ratio} \times 336) \div \text{tire diameter in inches}$ . Calculate your gear ratio with the above formula, and then be sure to get the accurate rolling diameter by marking the tire and the ground with chalk and then pushing the car one tire rotation forward. Measure between the initial chalk mark on the ground and where the chalk mark on the tire completed one rotation. Divide that linear measurement by 3.14 to get the final rolling diameter. This also assumes a final drive of 1:1 for the transmission gear, which is the common top gear in many vintage transmissions.





Event Schedule (club events in **bold**)

date	event	location	more info / contact
12/1/19	CAM Holiday Party	CAM, 2pm	Bob
12/3/19	<b>CCM General Meeting</b>	<b>CAM, 7pm</b>	<b>Bob</b>
12/7/19	<b>CCM Holiday Party</b>	<b>Carmichael Elks, 6pm</b>	<b>Bob or Mike</b>
12/8/19	Shriner's Hospital Toy Run	Meet 9am	Bob
12/17/19	CCM Board Meeting	Round Table Pizza, 7pm	Bob
6/27/20	<b>CCM Day in the Park XXVII</b>	<b>Rancho Cordova</b>	<b>CapitalCityMopars.com</b>



Looking for a special gift to give to your car guy or gal? How about a "Gearhead" membership to the California Automobile Museum? Several membership options are available. Membership information and an application form can be downloaded from the CAM website at [calautomuseum.org](http://calautomuseum.org).

The Capital City Mopars is a proud member of the Association of California Car Clubs and the California Automobile Museum.




SACRAMENTO, CA

**Guest Speaker Ideas Wanted**

*We are looking for ideas and suggestions for guest speakers to appear at our monthly General Meeting. In the past we have had insurance agents, oil industry experts, DMV officials, an expert from the WPC museum, and various others. These speakers provide information and entertainment for the meetings and are always appreciated.*

**CAPITAL CITY MOPARS**

**2019 HOLIDAY DINNER AND AWARDS CEREMONY**

Capital City Mopars is pleased to announce it will be hosting the annual Holiday Dinner for all Club Members. And we do mean host! (Cost of the dinner will be paid by the Club). However, each individual reservation requires a \$25.00 reservation deposit (refundable at the door). This party is scheduled in recognition of our Members participation and support throughout the year and we hope that every Member will be able to attend.

**When:** Saturday, December 7, 2019 - Social Hour/No Host Bar at 6 pm, Dinner served 7 pm

**Where:** Carmichael Elks Lodge, 5631 Cypress Avenue, Carmichael, CA 95608

**Who is invited:** All CCM Regular Members and their Co-Member / Guest (adults only Please)

Reservations must be received no later than, Tuesday, December 3, 2019

**QUESTIONS?** Contact VP Mike Allen (916) 207-7746

Please select from the following menu and mail your check with the reservation form below to:

Capital City Mopars, PO Box 340426, Sacramento, CA 95834 (or bring it to a CCM Meeting)

Return this reservation form with your check

Member Name: \_\_\_\_\_  Prime Rib  Breast of Chicken **\$25**

Co-Member Name: \_\_\_\_\_  Prime Rib  Breast of Chicken **\$25** Total Enclosed \$ \_\_\_\_\_

Entrees include tossed green salad with dressing, rolls & butter, baked potato, veggie, plus coffee and dessert.

*Please bring one wrapped gift (\$10-\$15 value) per person, to be raffled during the party.*

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### What We're All About

Capital City Mopars (CCM) provides a place to share your enthusiasm and knowledge about Mopars and enjoy the company of other Mopar enthusiasts. CCM membership is open to anyone interested in Chrysler Corporation or American Motors vehicles who are eighteen years or older and have a valid drivers license. Annual membership dues are \$36 for regular members and an additional \$6 per co-member. One co-member is allowed for each regular member. The co-member must reside in the same household and be eighteen years or older. All members and co-members are required to participate as worker/chairperson in at least one function per year, and everyone must work at the annual car show.

### CCM Members!

Got a business?

Provide a business card and it will be printed in the pages of CCM News - free!

**Note:** Complimentary car club member passes to the California Auto Museum can be obtained from President Bob Berry or Treasurer Norm Benedict. Passes can also be mailed with your newsletter when requested.

## Next Meeting

Tuesday December 3

7:00 pm

California Auto Museum

2220 Front Street, Sacramento

### The Lunch Bunch

Several CCM Members have been meeting for lunch at various locations in town, on the last Wednesday of the month - but none in December. The next one will be January 29. They call themselves "The Lunch Bunch". This is an open invitation for anyone interested in attending. Time is usually 11am. John Rior-dan is the organizer and you can call him at 415-823-7009 to get on the list.

John will call a few days before each to let you know to what restaurant the group will be going.

**DMV Help Line (916) 657-6560**

### Donate Raffle Prizes

Got any items that you don't need? Something you bought and never used, or won at a previous raffle? Consider donating them to the Club, as raffle prizes for the General Meeting or the annual Car Show.