



AUTO NEWS

LARGEST CONSUMER AUTOMOTIVE NEWSPAPER IN U.S.
Distributed at Retail Outlets, Auto Shows & Events

**AUTO NEWS**



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Art Gould, A Car Show Co-Host and Auto News Senior Editor Passes Away

Editor's Note: Art was our Senior Editor for over 2 decades and was our mentor as we expanded to California

by Dave Kuntz

Art Gould, long-time host of The Car Show on KPFK-FM Los Angeles, hot rodder, car fanatic, and all-around great guy has passed away after a brief illness. In keeping with Art's well-known trait of not sharing many details of his personal life, the cause of death is not being disclosed. He was 76, and is survived by a brother, a sister, and a wife.

Born in Los Angeles, Art grew up in the Washington D.C. area and at a young age developed a strong musical talent, teaching himself to play the piano by age 7. By the time he was a teenager, he was playing clarinet and saxophone professionally, working as part of a musical group that backed up Roy Clark

on a record album. The youngest member of the band at age 15, Art was already making great money and could have had a career as a professional musician.

But the California car culture was calling, and quite loudly, so Art headed west to San Jose State University and automobiles. He had a long career at General Motors on the west coast, then was recruited to become the general manager of Cormier Chevrolet in the 1970s. By the late 1980s Art had taken an early retirement, and started offering expert car buying advice on The Car Show as a favor to the show's founder, the late John Retsek. With his broad car knowledge, Art eventually became the show's third co-host, joining John Retsek and Len Frank in the booth each Saturday. Upon Len's passing in 1996, the show was back to two co-hosts, and it was John and Art as a duo for many years. Eventually, John decided to step down from the show, but Art **continued on page 10**



Art Gould in the KPFK studio (Scott Killeen)

The Elantra Sport, Hyundai's "Hot-Rod" Brings Younger Buyer to Dealerships



Hyundai Elantra Sport in Las Vegas (photo Auto News)

by Bill McCallum

I had the opportunity to drive the Hyundai Elantra Sport on what I refer to as the "Golden Triangle" for a driver; Los Angeles to Phoenix; Phoenix to Las Vegas, and Las Vegas back to Los Angeles. I refer to the Elantra Sport as "Hyundai's Hot Rod" because of the "cutting-edge design, 6 sp manual shift mated with a 1.6L 1-4 Turbo producing 201 horsepower. The "Golden Triangle" including part of the old Route 66 gives one a great variety of driving experiences; freeway, open road, curves, hills and when you get "thumbs-up" in Las Vegas you know you are driving a special vehicle.

To quote Hyundai in their Elantra sales brochure. Elantra raises the standard for what you can expect from a compact sedan. We made Elantra one of the quietest cars in its class, and one of the roomiest, too—its spacious interior rivals the room inside some mid-size sedans. A tight turning radius makes urban maneuvers easier, while Elantra SE's estimated 490-mile driving range makes for carefree getaways.

Elantra gives you a choice of three engines for powering through your day. Sit in Elantra Sport, and a deeply bolstered driver's seat, flat-bottomed steering wheel and

alloy pedals invite you to enjoy the performance. Every Elantra includes SmartSense safety features like Forward Collision-Avoidance Assist and lane Keeping Assist, normally reserved for more expensive cars.

The 2020 Elantra GT N Line is a driver's dream. Step inside, and you'll find a leather-wrapped steering wheel. Leather sport seats with contrast stitching. A floating 8" touchscreen audio display, and available luxuries like class-exclusive ventilated front seats, wireless device charging and more. A 201-hp Turbo engine turns up the heat on twisty mountain roads.

"From Meetings to the Track the Honda Civic Type R is the Perfect Car"

Story by Chris Chung on page 3



Honda Civic Type R at Scale Racing Center, Tacoma, WA (photo Auto News)

My Predictions for 2020 and Beyond



Bill McCallum
editor

It's that time of the year for my 2020 predictions based on my 5 decades in the auto industry.

Last year I was 6 for 7 or 85% right on.

This year I predict:

1- Automakers will continue to invest billions of dollars in the development of pure electric vehicles (EV's) without a clear definition of the size of the U.S. EV market.

2- Large truck sales will stall due to the high cost of ownership.

3- SUV sales will surge with Hyundai leading pack with their 5 best selling SUV models.

4- U.S. vehicle sales will remain stable equaling 2019 volume.

5- Sedan sales will rebound with consumers looking for value and economy in a new vehicle.

6- Dealership inventories will remain high with many bargains available for the consumer.

7- The FCA/PSA merger should happen by year end or in Q1 with details to follow. It's a good deal for both parties and the U.S. consumer.

Happy New Year !!

"Art, May God be with you on your last Road Trip, You Will Be Missed"

2020 Kia Telluride Test Drive



Art Gould
feature editor

The incredibly crowded SUV/Crossover market adds its newest member, the Kia Telluride. Of the 165 global brands available in the auto industry, a disproportionate number, at least in the United States, fall in the category of Sports Utility vehicles also known as crossovers and crossover utility vehicles.

Every auto company in the U.S. either already has a selection of crossover vehicles or have several ready for production. This phenomena, when looking at the overall auto industry, is of a magnitude not seen in the modern history of the automobile.

The Kia Telluride falls into the category of a three row, full size SUV that is ready to accommodate families that need people space as well as adequate storage. In addition to convenience, this vehicle is impressive in its overall competence and high level of standard features. The 291 horsepower 3.8 liter Gas Direct Injection V6 engine with an economical eight-speed automatic transmission is available in active on-demand all-wheel drive as well as front wheel drive. This is the only engine available in the Telluride found in any of its four trims.

Second row passengers can set their own temperatures and fan speed. They can decide whether

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Car Films to watch during the Holidays



Joyce Chow
entertainment editor

In a galaxy, not so far, far away, Porsche engineers joined forces with Star Wars creatives to create a new starship worthy of an alliance of two iconic brands for the latest Star Wars film, the final episode of the Skywalker saga "Star Wars: The Rise of Skywalker" which will premiere this holiday season.

See if you can see the Porsche influence in the starship model's public unveiling will be at the movie premiere. Porsche will be showcasing the Taycan, their first all-electric car, at the event. It looks like it might have been inspired by a stormtrooper transformed into a sports car.

"Even though they do not seem to share many elements at first glance, both worlds have a similar design philosophy. The close collaboration with the Star Wars design team inspires and fascinates us." Michael Mauer, Vice President Style Porsche at Porsche AG.

The Designer Alliance was co-captained by Mauer and Doug Chiang, VP Executive Creative Director, Lucasfilm. Chiang with over 20 years of Star Wars design expertise oversees designs for all new Star Wars franchise

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Toyota Corolla Hatchback Test Drive



Ed Barrett
feature writer

Toyota just introduced a new hatchback Corolla to replace the Corolla iM it inherited from the now defunct Scion brand. This 2019 Corolla Hatch is a completely fresh design, with new styling, new platform, a new engine and more. It is offered in just two models, SE and XSE. Sedan versions of the Corolla will be updated later.

The 2019 Hatch features a bolder, if not a prettier look, than the iM. An open-mouth grille, with a chrome surround, and narrow LED headlamps highlight the front fascia. Up-sweeping character lines on the flanks, enhanced by the available roof spoiler, convey a sense of motion. This is the sportiest-looking Corolla to come down the pike.

Inside, the interior shows a significant improvement over previous Corollas. My up-market XSE Hatch sported a premium quality interior. The soft-touch vinyl, with contrasting stitching, had a nice look and feel. Leatherette seats, with bright cloth inserts added zing, and glossy black trim provided an upscale touch.

The dash features a large, 8-inch touchscreen. Toyota's Entune controls the infotainment system. The interface is not as fluid as

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2020 Toyota Corolla Hybrid Test Drive



Scot McCallum
"Green Car Guy"

The 2020 Toyota Corolla Hybrid is one of the most popular vehicles in its class. Why? Let's start with a MSRP at \$22,950! The transition between fuel and battery is seamless, and Toyota has eliminated virtually all road noise allowing the driver to enjoy the 6 speaker audio system. The controls are intuitive and the 8 inch touch screen is positioned high for safety. Toyota has loaded this vehicle with features such as Safety Sense 2.0 Pre-Collision detection including pedestrians, Lane Departure Alert, and automatic high beams. And of course, fuel economy rating at 52 MPG along with reliability and quality engineering throughout that you would expect from a Toyota vehicle makes this a must-test-drive choice. The Holidays are upon us, and what a gift the 2020 Corolla Hybrid would be for a recent college graduate or someone looking for a solid touring or commuter vehicle.

See photo on page 17



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GMC Terrain Offers All-New Black Edition



David Schmidt
feature writer

In the second year of this generation Terrain, GMC is offering a Black Edition: taking advantage of the current popularity of blacked-out trim and wheels.

GMC offers this package only on SLE and SLT trim levels. With it you get 19-in. gloss-black aluminum wheels, a darkened grille insert. The cars also feature a black surround, black mirror caps, roof rails and black exterior model and trim badging.

Beyond that, the car is similarly equipped to the other, more colorful, versions.

Looking at the Terrain from the outside, the current thinking on GM's crossover design is clear. While these vehicles are reminiscent of sport utility vehicles, now they communicate that they are spacious vehicles which aren't trucks. That's what buyers want, and GM is ensuring that they know the Terrain should fit the bill.

It is a strong looking vehicle. The front face makes it clear this is a GMC product. The roofline and greenhouse make it look like there's plenty of room inside,

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Toyota Camry Stays Afloat at Biscayne National Park



Sally Hanson
travel editor

Sally Hanson, Auto News feature writer for the past 30 years, continues her visits to National Parks in press vehicles to give readers a view of new automotive offerings as well as an insight to our beautiful National Parks. Sally is scholarship co-chair of the Northwest Automotive Press Association.

by Sally Hanson

A Ruby Flare Toyota Camry was waiting for us in Fort Lauderdale, Florida, for an excursion through Miami to Biscayne National Park. The drive to the park was comfortable as we relaxed in the comfortable seating of the 8-way power adjustable seats. As driver, I was treated to power lumbar support. The leather trimmed seats are also heated, but on the pleasant day that we visited the park, the feature was not used.

We were noticeable on the road in the bright red midsize sedan with an even brighter metallic front grille and silver alloy wheels. Once on the interstate, I began to appreciate the power of the Camry's very adequate four

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2020 Canadian Truck King Challenge Winners



Howard Elmer
truck writer

The Canadian Truck King Challenge focused on testing the mid-size truck segment this year. As to the why? Well, we look at what's happening in the truck world and test what truck buyers are most interested in each year.

Early this year we sent invitations to every manufacturer asking them to provide us with the relevant trucks; including the off-road versions. So, whether it's the FX4, the TRD Pro, Rubicon, PRO-4X or ZR2 Bison – mid-size owns the off-road market and we wanted to test them.

Here, below, are the builders who decided it was important to compete – and what they brought to the Challenge

Toyota, has the oldest continuously build mid-size; the Tacoma. They gave us two trucks. One for the street, the other decidedly off-road capable.

2020 Toyota Tacoma TRD Sport.
Exterior colour: Voodoo Blue.
Interior colour: Leather, Black/Grey
ENGINE: Direct Injection 3.5L DOHC V6 w/VVT-i.

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Ford Bronco Making A Comeback



Jordan Williams
millennial writer

Hey, hey everybody! Who doesn't love a come-back?

I don't know about you, but I have recently read about four articles on the Ford Bronco making a come-back in 2020... this is an exciting potential buy for Millennials because the car has pleased so many of our parents in their younger years and it is obviously back (and improved) by popular demand!

Are you familiar with the Ford Bronco? It has been called "legendary" or an iconic SUV, one of the world's greatest 4 x 4 automobiles since the mid-sixties until it temporarily ended production in the mid-nineties. But it is headed back!

As detailed with Ford communications and other media, the new generation Bronco remains true to its down and dirty or rugged roots, but includes the latest in smart technology--something we all love and desire--mixed with a great new more streamlined look, something else our generation loves, too.

Ford announced in 2019 that

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Honda Civic Type R Test Drive



Chris Chung
motorsports writer

It's not often that \$35,700 will get you a car that goes 0-60 in 4.9 seconds while still achieving 25+ MPG, and toting 46.2 ft³ of cargo space. But the Civic Type R delivers just that. With its wild "Boy Racer" aesthetic, I have to say I was skeptical of the Civic Type R, but after driving it, I was thoroughly impressed.

Driving Experience:
What Torque Steer?

Being an avid RWD driver, I was skeptical of the Type R's FWD platform. I presumed that the Type R would suffer from the torque steer that has plagued so many Honda's from years past. That was not the case with the Type R at all. With its dual-axis strut front suspension, front & rear stabilizer bars, and multi-link rear suspension; the Type R gave a driving experience that felt like the car was on rails. The car would dive nose first into turns, with almost 0 body roll while pulling you through them at speeds that I couldn't have done in my 2004 STi.

The car is powerful as well. With 306 HP, and 295 lb-ft of

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Arv Voss
feature writer

2020 Cadillac XT5 Sport Test Drive

The Cadillac XT5 replaced the outgoing SRX in 2017 and is based on a unique all-new global chassis and structure. The XT5 tips the scales at 292 pounds less than the SRX despite the fact that it is seven inches longer. As a result, rear seat legroom is 3.2-inches more than in the SRX, and the rear seat reclines in addition to moving forward and backward.

The new architecture delivered a wheelbase two inches longer than the SRX, and a one-inch wider track, affording extra useable interior space. The XT5's overall length, width and height however, are slightly smaller than the SRX, giving it a firmly planted stance, and a lean and sleekly aerodynamic appeal.

The new base engine is a 2.0-liter, 237 horsepower turbocharged, inline four-cylinder engine. The 3.6-liter V-6 engine remains as an option with VVT and auto stop/start and Active Fuel Management cylinder deactivation technologies. V-6 horsepower is rated at 310 and torque measures 271 ft./lbs.

The Cadillac XT5 as been refreshed for 2020 with modest styling changes, the front grille gets a new design with varying mesh textures dependent upon the trim level. Front and rear bumpers have been restyled, LED headlights now come standard, LED taillights have different graphics, and there are new wheel designs ranging from 18 to 20 inches.

There are three distinct levels of trim. The styling execution displays fluid, liquid forms accented by dramatic cut and character lines. The rich image begins up front with the shield-shaped grille flanked by the Vertical LED light pipes. The hood features a subtle center line and outer edge accent lines that flow into the slimmer "A" pillars outlining the sharply swept back windshield joining the rising curved roofline that finishes with an integrated spoiler resting above the reverse angled backlight and hiding the rear wiper. The aft end exhibits a wide stance with broad shoulders and split, rectangular exhaust tips that are integrated into the rear diffuser.

The interior is a showcase of genuine materials – wood, aluminum, carbon fiber and double stitched leather. The center console has been redesigned and the XT5 gets Cadillac's new infotainment system that's operated by a rotary controller on the center console; the 8-inch display is a touchscreen. The seats are supportive, optimally adjustable and comfortable.

Connectivity is courtesy of Cadillac's updated CUE system with a faster processor and revised graphics similar to the **continued on page 6**



Michelle Hale
asia correspondent

Interview With Bill Russo: The Future of Mobility

What is the future of mobility around the world? In attempting to separate the hype from the here and now, Global Auto News caught up with mobility guru **continued on page 5**



Harold Allen
feature writer

Worlds First Bentley Bentayga Stetson Arrives in Texas

What a perfect match, the association of Bentley and Stetson. Both companies have incredible heritage, one in automobiles and the other in cowboy hats. Both **continued on page 9**



Lisa Delaney
special projects editor

Automakers Make Pet Safety A Top Priority

Subaru has clearly been on the forefront of pet safety and a trailblazer in supporting pet-focused charities for years. In fact, pets are an integral part of the company's **continued on page 25**



Gary Murphy
writer

Is America's Power Grid Ready for Electric Cars?

They'll put new pressure on the nation's energy infrastructure, but timing might present the biggest challenge.

Today, less than 2 percent of **continued on page 5**



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Politics and the Environment



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Interview With Bill Russo: The Future of Mobility

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Bill Russo. Bill, the soothsayer in Shanghai, is one of the most quoted executives on mobility in China.

He is the founder and CEO of Automobility Limited based in Shanghai, with more than 35 years experience in the mobility industry, as an auto executive in the US and China and as a leader with IT and electronics firms. He has worked as an advisor and consultant for numerous multinational and local Chinese firms in the formulation and implementation of their global market and product strategies.

Bill is also currently serving as the Chair of the Automotive Committee at the American Chamber of Commerce in Shanghai.

What are mobility services in the auto industry?

From the market or customer perspective, mobility services are alternative ways (other than owning a car) for people to get from point A to point B by paying a service provider for access to a vehicle. This can be through a public transportation service (train, bus, taxi), or a private service operator (car rental and bike sharing) or person-to-person (P2P) ride hailing service.

From the auto industry standpoint, this represents an alternative channel for selling units to a fleet owner/operator of the platform that provides the mobility service.

Where do you see the future of mobility services in the auto industry in China in the next 5 years?

Markets like China have low per capita car penetration and huge urban population. In densely populated cities in China, mobility services like Didi Chuxing, UCAR and others are extremely popular. In such places, these services eliminate the pain points associated with driving and parking. It also offers higher utilization of the vehicle population, which can reduce the number of vehicles needed to serve the demand for mobility, and reduce the need for allocating space in the city for underutilized, parked vehicles. In China, we expect shared vehicles to rise from slightly under 10% of the car population to nearly 25% by 2025.

Where do you see the future of mobility services in the auto industry in China in the next 20 years?

Mobility services will expand as populations grow and urbanization rates continue to rise. New technology in the form of connected and self-driving vehicles will make the economics of the mobility services business more favorable, and urban residents will embrace the convenience of being transported in a personal space where they can repurpose their time to purposes other than the mundane task of city driving. Beyond 2030, people and goods movement will increasingly be served by autonomous mobility on demand (AMOD) devices.

What are the challenges mobility services face in the auto industry in China?

Do We Drive To Connect or Disconnect?

Two recent conversations with new car owners led to this story

One with a doctor at a car show who just bought a new BMW and another with a pilot I sat next to who was "dead-heading" back to LA from Seattle who had just bought a new Range Rover. Both loved their new vehicles, but both said "..... I will never buy another new vehicle." The reason "..... to much technology I never use and it takes to much time to understand." (500 to 600 page technology manual included in each vehicle)

Two questions I would ask automakers. 1- Is this a growing trend? 2- Should Automakers do more research to determine if

their buyers really want to connect with everything in their life while driving a car? The answer to the first question is YES. The answer to the second question is MAYBE.

Both answers could spell TROUBLE for the auto industry in the mid to long term. While I remove "safety technology" from these examples, do we really want to connect with everything and everyone in our life while driving, or like me I want to DISCONNECT from everyone and everything while driving. Time will tell.

See: page 13 book review, Never Stop Driving: A Better Life Behind The Wheel

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Initially, mobility services will be a fiercely competitive market with most automotive companies seeking to carve out a relevant space with existing and new partnerships. In a fragmented landscape, profits will be difficult to generate. However, successful players will emerge that will have the backing of digital ecosystem partners who have the ability to monetize the big data associated with the mobility and online consumption pattern of the platform user. Obtaining business licenses to operate a fleet of mobility service vehicles may limit the participation in the business and give more power to the fleet operators in the new value chain.

What are the advantages of mobility services in the auto industry in China?

For the users, it's the elimination of pain points associated with driving, with democratized access to personal transportation. For the cities, more efficient matching of mobility demand and vehicle supply with fewer cars need to serve the demand. However, the desire of individuals to "upgrade" (from bus or metro) and be in their own space does create added

congestion on the road during peak hours.

How does your company help mobility services in China?

Automobility is a strategy & investment advisory firm focused on helping its clients to build a collaborative ecosystem of partnerships to participate in the new mobility value chain. Our main businesses are advisory services for venture and private equity investors, and consulting services for corporations seeking to participate in the new mobility business model.

Is America's Power Grid Ready for Electric Cars?

continued from page 4

the vehicles Americans buy are electric. But within the next three decades, some automotive industry experts expect electric vehicles could make up the majority of U.S. and global car sales.

All told, American drivers log about 3 trillion miles per year, consuming more than 170 billion gallons of gasoline and diesel in

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AUTO NEWS® BYTES

2019 PEBBLE BEACH CONCOURS D'ELEGANCE Raises \$2.1 Million for People in Need. Total Charitable Donations Now Exceed \$29 Million

The Pebble Beach Concours d'Elegance and its charitable partners gathered to celebrate the event's charitable giving: the 2019 Concours raised \$2.1 million for people in need.

Pebble Beach Company CEO Bill Perocchi announced that a total of \$2,112,000 is being distributed to local charities this year—an amount equal to last year's all-time high. Since its founding in 1950, the Concours has now raised more than \$29 million in charitable donations.

"The Pebble Beach Concours seeks to celebrate the best cars in the world," said Concours Chairman Sandra Button. "But the place that is Pebble Beach and the people who live here also play a large part in making this Concours great. So, from its start in 1950, the Concours has done its best to give back to the local community, to help people in need. Car enthusiasts from around the world join with us in this endeavor, channeling their passion for cars into raising money for worthy charities."

Through its primary charitable partner, Pebble Beach Company Foundation, the Concours funds more than 90 of the region's youth-focused non profits.

"We are so very appreciative of the generosity shown by all of the participants and attendees of the Pebble Beach Concours d'Elegance," said Perocchi. "The Pebble Beach Company Foundation is proud to support organizations in our community that strive to improve the quality of life by focusing their efforts on youth and education."

Additional charities that benefit directly from the Concours include Boys & Girls Clubs of Monterey County, Natividad Foundation, Kinship Center, Montage Health, Salinas Valley Memorial Hospital Foundation, United Way Monterey County and Animal Friends Rescue Project. Several more charities volunteer time and effort in exchange for donations, while other nonprofits benefit from the use of Concours infrastructure, such as tents, to host fundraisers.

The Concours provides funding from many sources besides the event itself. Generous participants send in direct donations, and event partners such as Genesis Motor America, INFINITI USA and Mercedes-Benz USA donate automobiles for charity drawings. Efforts to raise charitable donations through the 2020 Concours are already underway.

The next Pebble Beach Concours, scheduled for Sunday, August 16, 2020, marks the event's 70th anniversary and a special display of past Best of Show winners is planned. Additional features include Pininfarina, Porsche 917, and Talbot-Lago Grand Sport, among others. To purchase tickets to the 2020 event, or to make a donation, go to www.pebblebeachconcours.net.

Canadian Truck King Challenge Winners

continued from page 3

MECHANICAL FEATURES: Part-Time Selectable 4WD w/2-Speed Electronically Controlled Transfer Case, Automatic Limited-Slip Differential, Locking rear differential.

TRANSMISSION: 6-speed manual
SUSPENSION: Rear Leaf Spring Suspension, Sport Tuned Bilstein Shock Absorbers

BRAKES: Front Ventilated Disc Brakes, Rear Drum Brakes.

WHEELS: 17" Alloy Wheels

TIRES: P265/65R17

2020 Toyota Tacoma TRD Pro.

Exterior colour: Army Green

Interior colour: TRD Pro Leather, Black

ENGINE: Direct Injection 3.5 Litre DOHC V6 w/VVT-I

MECHANICAL FEATURES: Locking rear differential, Part-Time Selectable 4WD w/2-Speed Electronically Controlled Transfer Case, Automatic Limited-Slip Differential (Auto LSD), Crawl Control + Multi-Terrain Select

TRANSMISSION: 6-speed automatic

SUSPENSION: Fox Shock Absorbers

BRAKES: Front-Ventilated Disc Brakes, Rear-Drum

WHEELS: 16" Alloy Wheels

TIRES: 265/70R16

General Motors chose to send us just one truck - their newest and most capable mid-size off-roader - the Chevrolet Colorado ZR2 Bison.

2020 Chevrolet Colorado ZR2 Bison

Exterior colour: Satin Steel Metallic Interior colour: Jet Black

ENGINE: 3.6L V6, DOHC WT

MECHANICAL FEATURES: full-locking front & rear differentials, 4WD w/Electric 2-speed transfer case with shield

TRANSMISSION: 8-speed Automatic

SUSPENSION: Multimatic DSSV Dampers, 50MM suspension lift

BRAKES: 4 wheel antilock disc brakes

WHEELS: 17" AEV Aluminum wheels

TIRES: 31-inch Goodyear Wrangler Duratrac off-road tires

FCA's Jeep brand gave us two versions of its all-new Gladiator pickup truck. These new pickups were equipped as an Overland edition and the most aggressive off-roader - the Rubicon.

2020 Jeep Gladiator Overland

Exterior colour: Billet Silver Metallic

Interior colour: Black

ENGINE: 3.6L Pentastar VVT V6 w/Stop-Start

MECHANICAL FEATURES: Heavy-duty engine cooling, Fuel tank skid plate Transfer case skid plate 2.72:1 Command-Trac part-time 4x4 system, Torx tool kit, 3.73 rear axle ratio, Selec-Speed control, Transmission skid plate, Tip start, Trac-Lok anti-spin differential rear axle

TRANSMISSION: 8-speed Automatic Transmission

SUSPENSION: five-link coil suspension design, Dana M210 front axle Dana M220 rear axle

BRAKES: 4-wheel ABS Discs

WHEELS: 17-inch aluminum

TIRES: 33-inch off-road tires

2020 Jeep Gladiator Rubicon

Exterior colour: Firecracker Red

continued on page 19

2020 Cadillac XT5 Sport Test Drive

continued from page 4

new Cadillac CT6, as well as CarPlay and Android Auto. A new Rear Camera Mirror is available with the Platinum trim, which provides a 300 percent increase in rearward vision along with an all-new auto wash feature.

XT5 provides 4G wireless connectivity, with a standard integrated Wi-Fi hotspot and wireless charging along with Apple CarPlay and Android Auto as standard fare for simpler in-car phone integration.

My 2020 Cadillac XT5 was in Sport trim and the AWD configuration. Power was provided by the 3.6-liter V-6. The exterior wore a Red Horizon metallic tint-coat, with the interior executed in Jet Black. The base price was set at \$55,095, while the final sticker came to \$65,815. After factoring in options and the destination charge.

The 2020 Cadillac XT5 features impressive content, improved NVH, pleasing acceleration and satisfying agility, while delivering acceptable fuel efficiency along with practical usable interior space.

Ride and handling qualities and characteristics benefit through the optimization of the body structure, with increased stiffness for a more pleasing and dramatic performance as well as improved crashworthiness, while delivering a lower overall mass.

The 3.6-liter V6 comes with Active Fuel Management and Auto Stop/Start (which unfortunately cannot be deactivated) combining to yield EPA Mileage Estimates of 19-mpg city and 27-mpg highway in FWD models and 18/26 respectively in AWD examples. The 310 horses along with the 271 pound feet of torque supply enough oomph to tow a substantial load.

All in all, the 2020 Cadillac XT5 sport AWD is a superb and luxurious SUV as well as in all of its other trim levels, with the Platinum Edition representing the Cream of the Crop in the lineup with added features and plushness.

SPECIFICATIONS:

2020 Cadillac XT5 Sport AWD

Base Price: \$38,995. (XT5) to \$62,500 (Platinum)

Price as Tested: \$57,790.

Engine Type and Size: 3.6-liter, DOHC, 24-valve Direct Injection V6 with VVT and auto stop/start and Active Fuel Management cylinder deactivation technologies.

Horsepower (bhp): 310 @ 6,700 rpm

Torque (ft./lbs.): 271 @ 5,000 rpm

Transmission: Nine-speed paddle shift automatic with Electronic Precision Shift.

Drive Train: Front longitudinally mounted engine / Front-Wheel Drive or Twin-Clutch AWD system with Electronic Transmission Range Selection.

Suspension: Front - MacPherson strut, twin-tube struts; specifically tuned coil springs; direct-acting hollow stabilizer bar;

isolated subframe; hydraulic ride bushings; available continuous damping control (CDC4 by ZF; offerings equipped with 20-in. wheels).

Rear - Independent premium Five-link design, twin-tube shock absorbers; tri-ball joint configuration; specifically tuned coil springs/isolators; hollow stabilizer bar; available rear cradle hydraulic bushings; available CDC4 by ZF (all offerings equipped with 20-in. wheels)

Brakes: Power-assisted four-wheel vented discs; front: dual-piston cast iron calipers with ceramic brake linings; rear: single-piston cast iron calipers with ceramic brake linings; four-channel ESC/ABS/TCS w/four-

channel chassis control.

Tires: Michelin Premier LTX 235/65 R18 mounted on 15-spoke alloy wheels (5-long double/5 short middle)

Wheelbase: 112.5 inches

Length Overall: 189.5 inches

Width: 75.0 inches

Height: 66.0 inches

Curb Weight: 3,995 lbs. - FWD / 4,277 lbs. 4,267 lbs Luxury AWD

Turning Circle: 38.7 ft.

Fuel Capacity: 19 gallons - FWD / 22 gallons AWD

EPA Mileage Estimates: 19 mpg city / 27 mpg highway FWD / 18/26 AWD

Drag Coefficient: 0.380

0 - 60 mph: 6.9 seconds - FWD / 7.1 seconds AWD

Tow Capacity: 3,500 lbs.

Toyota Corolla Hatchback Test Drive

continued from page 2

some other systems. Pairing up your smartphone is a multi-step operation, and can be frustrating. Furthermore, the graphics for the optional navigation maps are confusing. Roads look like a jumble of squiggly lines. However, on the upside, Apple CarPlay is now standard.

Seats up front are well-contoured, and provide plenty of room for six-footers. Six-way adjusters are standard on the SE. The XSE gets heated seats, and a power adjuster for the driver. In the rear, headroom is sufficient for even tall passengers, but legroom is in really short supply. Yet, the rear seats do fold down, 60/40 style, to enhance the capacity of the rather limited 18 cu.-ft. trunk.

Toyota powers the Corolla Hatchback with a new 2.0 liter, 4-cylinder engine that pumps out a modest 168 horsepower. This is the same motor that drives the Lexus UX200 I recently tested. It's not a barn-burner, but it's not sluggish either. Gas mileage is good at 32-mpg with the stick, and impressive at 36-mpg with the automatic.

A six-speed manual gearbox is standard, and a CVT automatic is optional. Like the Lexus, the CVT has a mechanical first gear. After launch, it transitions seamlessly to CVT system. The idea is to generate a quicker more natural-feeling

launch from stop. The system works very well. Paddle shifters are standard on models with CVT, and enhance driving fun.

On the road, the Hatch impresses with sportier than expected driving prowess. The steering is taut and sharp, providing a good feel of the road. The suspension is tuned to deliver responsive handling. This car is right at home on a twisty road. Yet, at the same time, the ride is compliant. The suspension is slightly firm, but absorbs bumps in the pavement very well. Furthermore, the cabin is reasonably quiet at normal freeway speeds.

The previous Corolla iM was noted for its extensive advanced safety features, the Corolla Hatch goes even further. The forward-collision warning and braking system can now spot bicyclists and pedestrians, even at night. Lane-Tracing Assist takes the lane-departure feature to a new level by keeping your Corolla centered in its lane, and the adaptive cruise control on CVT models will not only maintain a constant interval, it can bring the car to a complete stop. As before with the iM, blind-spot monitors are standard.

The Corolla Hatchback looks like a real winner in today's market. Pricing starts at just \$21,000 for the SE with manual transmission, and \$24,010 for the XSE. Models with automatic transmission are \$1,000 more.



2020 Cadillac XT5 Sport (photo Arv Voss)



Mercedes-Benz of Lynnwood

#1 Certified-Pre-Owned Sales Volume in WA State



From Meeting to the Track the Honda Civic Type R is the Perfect Car

by Chris Chung

continued from page 3

torque, the Type R delivers 0-60 times around the 5 second mark and is able to run a quarter mile in roughly 13.5 seconds. I did note that the car had a lot of difficulty delivering that power to the front wheels in the rain without spinning the tires. Turbo-lag though, is virtually non-existent, with smooth power delivered through precise throttle control. The Type R is only available with a 6-speed manual transmission with a short-shifter that made banging gears feel like flipping a light switch. Not to mention the Type R has an auto-rev matching feature that makes you seem like a better driver than you really are when downshifting (no need to heel and toe!).

Overall, the vehicle was responsive, handling was impressive, and driving the car was pure bliss. I would absolutely say that the driving experience is the biggest selling point of the Type R.

Aesthetic:

Exterior:

The Type R has a very, "in your face" aesthetic. With a gigantic wing, and lots of aero features. The Type R looks a bit like a hot hatch that just came out of The Fast and the Furious. I wasn't a huge fan of the look, and would prefer it a little more muted (like the Si). The market seems to either love or hate the style, so you'll have to see for yourself.

Interior:

The interior of the Type R though, was high quality. The racing seats hug you firmly, but are comfortable over long distances. The dashboard, is borrowed from other Civic trims and features a

7-inch infotainment system that has Apple CarPlay and Android Auto integrations. In previous years, Honda had received complaints about the user experience, so I was happy to see they took quick action and added a physical volume control knob and buttons. This served to make the infotainment system much less glitchy and easier to use than my friends 2016 Civic.

The interior is also spacious for a small car. I comfortably seated 4 adults, with the 42.3 inches of leg room in the front, and 35.9 inches in the rear. Being a hatchback, cargo space was also excellent. You have 25.7 ft³ to work with with the rear seats up and 46.2 ft³ with them down. Plenty enough space for Costco runs or moving medium-sized pieces of furniture.

Red is obviously associated with sportiness for Honda. There is red everywhere in the interior. The instrument cluster, the seats, even the seat belts are red! I personally, was a fan, but if you hate the color red you may run into some issues.

Takeaway:

The Civic Type R is the perfect car if you're looking for a reliable, fast car to daily drive in the city while still being a contender on the track. The hatchback stature makes this car highly functional while also achieving great fuel economy numbers. It's not often you find a vehicle that is a jack of all trades but the Type R seems to check all the boxes.

So, if you're a yuppie that lives in the city and want a functional vehicle that still puts a smile on your face like me, be sure to check on the 2019 Civic Type R.

Ford Bronco Making A Comeback

by Jordan Williams

continued from page 3

"We have heard our customers loud and clear", stated Joe Hinrichs, Ford's president of The Americas on https://social.ford.com/en_US/story/vehicle-type/suv/The-Ford-Bronco-is-Coming-Back.html, written by Cole Quinell.

So, the new Ford Bronco will be manufactured at the Ford Michigan Assembly Plant in Wayne, Michigan and be a part of the Ford vehicle portfolio in 2020—coincidentally, this is where the 1966-1996 models were also built!

What do you think? Do you like

the look? Do you plan on buying one or test driving one? Let me know at Global Auto News!

See you next time Millennials!



GMC Terrain Test Drive by David Schmidt

continued from page 3

which there is. The interior is typical of this segment. Since it is a compact crossover there's not so much cargo and people space to keep buyers for looking up to mid-sized version. But for the market it serves, it offers a competitive amount of space.

The interior looks good, although you'll never decide you're in a luxury vehicle. The seats are comfortable and there's an airy feel to the cabin. The center screen works well to control the infotainment and other systems, providing an intuitive process. Apple CarPlay, Android Auto, and an onboard Wi-Fi hotspot are all standard.

I wasn't much of a fan of the transmission buttons, although in today's world of electronically controlled trannies, putting a huge lever in the middle of the console isn't all that meaningful. But I would prefer a more clearly isolated and specific layout, to make the transmission selection easy and positive.

The interior reflects what this vehicle is, a capable smaller crossover to serve small families. This isn't a tiny vehicle, as it's 182.3-in. long on a 107.3-in. wheelbase. It's also 72.4-in. wide and 65.4-in. tall, putting it squarely in fighting

size with its primary competition in the compact crossover segment.

This includes Chevrolet's Equinox, which shares much with the Terrain. Others are the Toyota RAV4 and Honda CR-V, Mazda's CX-5, Jeep Cherokee and the Ford Escape. Both Kia and Hyundai are fighters in this segment, perhaps the most competitive segment of the crossover market.

The model I tested was the Terrain SLT with all-wheel drive. My test car had the nice 2.0-liter turbocharged four-cylinder engine. I would seriously recommend

this engine. It produces 252 hp. and 260 lb.-ft. of peak torque. Its rated mileage is 26 mpg in the city and 30 mpg on the highway.

The base engine for the Terrain is a 1.5-liter turbocharged four-cylinder engine. This motor produces 170 hp. and 203 lb.-ft. of peak torque. Fuel efficiency is rated at 26 mpg in the city and 30 mpg on the highway.

The power from either engine goes through a nine-speed transmission. This modern and capable tranny makes the best use of the



GMC Terrain (photo David Schmidt)

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Kia Telluride SUV Test Drive Report

continued from page 2

the vents blow from the ceiling or near the floor. When getting back to the third row of seats, a one button solution is on each side of the Telluride. It lowers the seat back halfway, then pushes the seat forward, making a path to the rear. A well done solution for easy entry to the rear seats.

The second row also supports good posture with seats high enough off the floor to provide adequate thigh support, which isn't always the case with competitors. The newest Kia continues to listen to their customers that always ask for buttons and knobs that are easy to see and use, eliminating difficult technology solutions found on an ever larger number of vehicles that try to solve infotainment and other methods to operate the ever increasing number of features found on newer vehicles.

The inside story continues with a mix of soft-touch surfaces, imitation wood and some chrome touches. A further look addresses visibility. Although the Telluride is a large vehicle, large windows make parking maneuvers easy. Second-row seats can be lowered by pressing a button in the rear cargo area when needed.

The new Telluride includes an excess of advanced safety features including forward collision warning, automatic emergency braking with pedestrian detec-

tion, lane departure warning, lane keeping assist, blind spot warning and rear cross-traffic warning with braking. Smart Cruise Control with stop & go add to the surprise and delight items that will pave the way toward the day when automatic pilot is added to the mix.

Drivability is easy with one of the most responsive characteristics found on a full size SUV. Necessities such as side window curtains on rear doors go along with front power tilt wheel and sliding sunroof. Smart hands free power liftgate, power folding

heated outside mirrors with turn signal indicators go along with heated leather wrapped steering wheel with remote controls.

The new Kia Telluride has a starting price at \$39,000 and my 'as tested' example, with several options on the upgraded SX model, came in at \$46,860. A real bonus to remember is one of the leading warranties to be found anywhere, 10 year, 100,000 mile powertrain warranty. I always ask the competitors, why don't you have this?

(Photo on page 10)



Toyota Corolla Hybrid (photo Art Gould) See story on page 2

GMC Terrain Test Drive

by David Schmidt

continued from page 7

power it gets. Unfortunately, in the base engine that isn't a really effective amount of power. While it will work for around-the-suburbs trips, on the highway the Terrain benefits from the 2.0-liter engine.

However, the Terrain makes up for that sluggishness by being quite comfortable and quite inside. The MacPherson front and multilink rear suspension is tuned to make the ride smooth and calm, which it does. This isn't a vehicle drivers are planning on throwing around the mall parking lot, so that suspension pliability is a good thing.

The Terrain's offerings aren't the least expensive of its competition, but GMC isn't interested in being seen as a "value" product. As they say, they offer "professional-grade" vehicles. With that in mind, the prices for the Terrain start at \$26,195 for the SL, \$29,295 for the SLE, \$32,095 for SLT, and finally \$38,995 for the Denali. The special Black edition costs \$795.

The model I tested was an SLT with AWD and plenty of options. Its list price was \$40,500.

If you have any questions, comments or ideas, please send them to comment@AutoWritersInk.com.

Jim Farley, Ford Pres. and his Executive Team Ink Mahindra Deal

continued from this page

"Mahindra and Ford coming together is a testament to the long history of cooperation and mutual respect between the two companies. Our combined strengths – Mahindra's expertise in value-focused engineering and its successful operating model, and Ford's technical expertise, global reach and access to future technology – are a potent recipe for success. At its core, the partnership will be driven by the shared values of both companies, which are focused on caring for our customers, associates and our communities," said Anand Mahindra, chairman, Mahindra Group.

"Ford and Mahindra have a long history of working together, and we are proud to partner with them to grow the Ford brand in India. We remain deeply committed to our employees, dealers and suppliers, and this new era of collaboration will allow us to deliver more vehicles to consumers in this important market," said Bill Ford, executive chairman, Ford Motor Company.

"At Ford, our purpose for 116 years has always been to drive human progress, and that won't change. But to continue to do that, we need to evolve with new and faster ways of not only delighting our customers around the world but also solving their very different needs. Strong alliances like this play a crucial role in assuring we continue to achieve our vision while at the same time staying competitive and delivering value to our global stakeholders," said Jim Hackett, Ford president and CEO.

The joint venture expects to introduce three new utility vehicles under the Ford brand, beginning with a new midsize sports utility vehicle that will have a common Mahindra product platform and powertrain.

Another area of focus for the joint venture will be electric vehicles. Ford and Mahindra will collaborate to develop vehicles to support the growth of sustainable mobility across emerging markets.

Driving greater economies of scale across the automotive value chain including sourcing, product development and access to relevant technologies, the joint venture is expected to achieve enhanced efficiencies to strengthen the Ford brand in India. In addition, the joint venture will be a catalyst for growth for the Ford and Mahindra brands in emerging markets, which are growing at double the rate of the global industry.

The joint venture will use the Ford brand distribution network in emerging markets to extend support for export of Mahindra products, in addition to Ford branded vehicles. Exports today form about 7 percent of Mahindra's auto business revenues and its products are exported to South Africa, Nepal, Bangladesh, Sri Lanka and Chile, among other nations and areas.

"Emerging economies including India are expected to account for one in three future vehicle

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INSIDE INDIA AUTO NEWS BYTES

by Bill McCallum

MAHINDRA AND FORD ANNOUNCE A JOINT VENTURE TO DRIVE PROFITABLE GROWTH IN INDIA AND EMERGING MARKETS

Marks a new era of collaboration, using the strengths of both companies to deliver operational excellence and value to stakeholders

The partnership will allow Ford and Mahindra to offer new product to customers faster than before and will deliver profitable growth to both companies

Valued at INR 1,925 crores (US\$275 million), the joint venture will drive enhanced competitiveness through greater economies of scale across the automotive value chain, including optimized sourcing, product development, use of relevant technologies and a global network

Mumbai/New Delhi, India, October 1, 2019 – Mahindra & Mahindra Limited and Ford Motor Company have signed a definitive agreement to create a joint venture that will develop, market and distribute Ford brand vehicles in India and Ford brand and Mahindra brand vehicles in high-growth emerging markets around the world.

Mahindra and Ford will form a joint venture, with Mahindra owning a 51 percent controlling stake and Ford owning a 49 percent stake. Ford will transfer its India operations to the joint venture, including its personnel and assembly plants in Chennai and Sanand. Ford will retain the Ford engine plant operations in Sanand as well as the Global Business Services unit, Ford Credit and Ford Smart Mobility.

The joint venture is the next step in the strategic alliance forged between Ford and Mahindra in September 2017 and is expected to be operational by mid-2020, subject to regulatory approvals. The joint venture will be operationally managed by Mahindra, and its governance will be equally composed of representatives of Mahindra and Ford.

The joint venture will be responsible for growing the Ford brand in India and exporting its products to Ford entities globally. Ford will continue to own the Ford brand, and its branded vehicles will be distributed through the current Ford India dealer network. Mahindra will continue to own the Mahindra brand and operate its own independent dealer network in India.

continued on this page

INSIDE EUROPE AUTO NEWS BYTES

by Bill McCallum

ROLLS-ROYCE CEO HONOURED IN LEADING EUROPEAN AUTOMOTIVE INDUSTRY AWARDS

• Torsten Müller-Ötvös wins Superluxury CEO category in Automotive News Europe magazine's prestigious Eurostars awards for 2019

• Awards recognise automotive industry executives who have 'stood out from their rivals by exceeding expectations'

• Judges cite launch of Cullinan and repeated record-breaking sales performance

The Chief Executive Officer of Rolls-Royce Motor Cars, Torsten Müller-Ötvös, has been named winner of the Superluxury CEO category at the 22nd annual Eurostars Awards presented in Frankfurt last night.

Awarded by leading professional industry journal Automotive News Europe, the prestigious Eurostars Awards recognise automotive industry executives who have 'stood out from their rivals by exceeding expectations'.

Announcing their decision, the judges cited Rolls-Royce's commercial performance since Müller-Ötvös was appointed CEO in 2010. The marque has broken its own global sales record six times in nine years and is on course to post yet another strong year in 2019.

This year's strong showing is in part due to the spectacular success of Cullinan, the marque's first superluxury SUV, which was launched in 2018. The entire 2019 production run has already been allocated, driving both sales and profitability; the advance order book stretches well into the first quarter of 2020.

Torsten Müller-Ötvös said, "It is a great honour to receive this award, and I am grateful to the judges. Serving as CEO of the world's foremost luxury manufacturer has been the highlight of my career, and it has been a pleasure and privilege to see our company go from strength to strength over the past 10 years.

"In reality, however, this award belongs to the whole Rolls-Royce family. Our sales success is testament to their skills and dedication, of the entire team whether they are working at the Home of Rolls-Royce in Goodwood, or our global network."





Jim Farley, Ford Pres. and his Executive Team Ink Mahindra Deal

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sales,” said Dr. Pawan Goenka, managing director, Mahindra & Mahindra Limited. “The joint venture will have a distinct product portfolio with shared platforms and powertrains, the newest technology, high quality and engineering standards from both Mahindra and Ford, at optimized costs. This winning combination will enable the joint venture to successfully position its vehicles in India, as well as unlock the potential of other highly competitive emerging markets”.

“The creation of this joint venture is a pivotal moment in both our companies’ histories. Strong alliances such as this play a crucial role for Ford to compete profitably in the high-volume, affordable vehicle segments so popular with our diverse customer base. By combining our respective talents, we will offer more vehicles to more customers in more places than ever before and deliver profitable growth to both Ford and Mahindra,” said Jim Farley, president of Ford New Businesses, Technology & Strategy.

Ford’s newly established International Markets Group (IMG)

continued on page 19

Bentley Bentayga Stetson Special Edition Arrives in Texas

continued from page 4

have been in the business for over one hundred years. Bentley started out in racing and coach building and Stetson supplying the finest cowboy hats in the industry. Stetson an iconic American brand since 1865 has been worn by culture setters from Buffalo Bill Cody to Ronald Reagan to Waylon Jennings.

The unveiling of the Bentley Bentayga Stetson Edition in Garland, Texas today started with a tour of the Stetson factory. The Bentley Bentayga Stetson Editions is a very capable off-road vehicle and can tow over 7,000 lbs. But

for luxury it’s hard to beat. This special edition costs \$246,578.00 and comes in a white sand exterior with interior colors of camel main hide, saddle secondary hide and burnt oak accents. Only two more will arrive in Texas one in October and one in November. This is an unparalleled experience for Western enthusiasts. Top speed is 180 mph, 0-60 mph in 4.4 seconds, 568 lb. ft. of torque at 1,960 rpm, the engine is a 4.0L v-8 Twin-turbo with 542hp.

Clients can customize their Bentley Bentayga Stetson Special Edition vehicle though Bentley’s personalized Mulliner team with an unlimited array of options. You can feel the luxury and quality and the design is exceptional. This vehicle is available at Bentley of Dallas, a Park Place dealership.



Bentley Bentayoga Stetson Special Edition

NEVER STOP DRIVING: A Better Life Behind The Wheel Book Review.....!

continued from page 13

A-list cadre of other top automotive journalists - presents the case for the mental and social benefits of driving and engaging with automobiles. It also shows you - from dreaming about a car to living with it-how to jump in and get the most from your machine. “The book is essentially a love letter to the art and act of driving,” says Webster. “With driverless cars on the horizon, it’s worth celebrating the fact that for many people there are enormous benefits to simply taking a drive in the country or getting dirty under the hood.”

The book celebrates the many benefits and pleasures of driving, racing, finding, owning and tinkering with cars, from the sense of freedom and adventure they offer to the sheer rush of commanding an object that represents a high point of human ingenuity and design. “When you see that green flag wave, you immediately undergo a sort of reversible lobotomy,” writer/racer Sam Posey muses. “Everything from your mortgage payment to your lingering self-doubts about your ability-it all vanishes.”

For some, there’s even a meditative aspect to cars. To them,

owning, driving and maintaining a car is an intentional act of being “in the moment,” a form of mechanical Zen, as it were. That focus drives out the distractions of modern life and demands that we be “present”.

Never Stop Driving even offers practical, how-to advice on choosing and buying that perfect weekend car from collector and dealer Colin Comer, who has bought and sold thousands of vintage cars over the past 33 years: “I think I have enough deals under my belt to know one thing: It doesn’t matter how many or what kind of cars you buy, there isn’t one of us who hasn’t screwed up at least once.”

Like no other book out there, Never Stop Driving shines a light in a new and profound way on why we find these machines so captivating and why, as a nation, our love affair with cars and car culture is certain to thrive long after the advent of the autonomous age.

Never Stop Driving: A Better Life Behind the Wheel, by Larry Webster. Published by Motorbooks | Available July 23, 2019 | Hardcover, 192 pages | \$28.00 USD, \$34.99 CAN | ISBN: 9780760363416

INSIDE CHINA AUTO NEWS BYTES

by Bill McCallum

Automechanika Shanghai 2019 embraces the evolving automotive ecosystem (December 3rd thru 6th, 2019)

Long-time supporters of Automechanika Shanghai eagerly await the 15th edition of the fair, and following another record breaking year, anticipation is higher than ever. The show stands as a dedicated platform for world-renowned industry leaders to connect at one of Asia’s most influential automotive trade fairs. This year, the show expands on the automotive ecosystem concept by not only covering the entire supply chain but also exposing more opportunities for research and development, insurance, investment, future technologies and more.

The show expects to host over 6,270 exhibitors across the impressive 350,000 sqm of exhibition space, which will occupy the venue’s current exhibition area. A growing number of special sectors, zones and fringe programme events will amplify many of the latest advancements and rising trends throughout numerous areas of the industry.

Ms Fiona Chiew, Deputy General Manager, Messe Frankfurt (HK) Ltd, said: “Over the past 14 editions, Automechanika Shanghai has continued to thrive alongside Asia’s automotive industry; China has now become the world’s largest auto market. When the show first opened its doors back in 2004, it hosted just 235 exhibitors and 9,000 visitors. In 2018, a staggering 150,568 visitors filtered through every corner of the NECC. It has continued to embrace change and nurtured development by way of new themes and elements. Looking to the future, we plan to collaborate further with research institutes, universities, industry organizations, finance and insurance firms, and the wider automotive community, so that we can work together and advance the fair’s automotive ecosystem.”

Developing an automotive ecosystem

Automechanika Shanghai will echo the progressing concept of the automotive ecosystem. The developing term comes as a result of rapid advancements in the industry that are currently remapping the automotive value chain. It zooms in on the concept of connectivity; not just through emerging technology, but also the notion of networks and knowledge sharing. As a result, Automechanika Shanghai will place more focus on digitalization, future technologies and services, as well as shaping more opportunities in the fringe programme, to work closer with research institutes and the wider auto community.

Digital trends spark new opportunities

The Tomorrow’s Service & Mobility sector will, once again, become a central area of the fair to demonstrate the show’s strengthened ability for emphasizing digital trends and connectivity. For instance, research suggests that the connected vehicle market in Asia Pacific is expected to reach USD 47.4 billion by 2023, expanding at a CAGR of 20 percent. As such, the sector shines a light on communication between the vehicle, infrastructure, pedestrians and networks. With this in mind, exhibitors will cover the latest innovations for electromobility, intelligent vehicle technology, car connectivity, mobility services, as well as lightweight materials and more.



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2020 Kia Telluride “Test Drive” on page 2



2020 Kia Telluride SUV (photo Art Gould)

Legends of Auto Gala Dinner in Monterey Scheduled for August 13th (See page 17 Also)



Alan Smith (left) Scale Racing Owner operates slot car track for Legend attendees at Gala Dinner (photo Auto News)



Top Row: Diane Fitzgerald (President, RPM Foundation for Lyn St. James), Ed Justice Jr., Corky Coker, Barry Meguiar Bottom Row: Beau Boeckmann, Dana Mecum, Rita and Rick Case, Steve Saleen, Ryan Falconer (photo by Joyce Chow)

Art Gould, Global Auto News Senior Editor Passes Away in November

continued from page 1

continued full-speed-ahead. He was also a contributor to various automotive publications, including Seattle-based Global Auto News.

For so many years, Art was truly the enduring face of the radio show, traveling to both local car events and national and international launch programs of new cars. In addition to being a member of the Los Angeles-based Motor Press Guild, he was also affiliated with other automotive press organizations in the country, and was able to participate in new car “track days” at places like Road America in Wisconsin and Laguna Seca in California. Between those programs and press events for new car launches, Art did many, many laps at some of the best road courses in the United States. But it was the quarter-mile drag strip where he was most at home, still showing young guys up when it was time to accelerate a car 1320 feet from a standing start as quickly as possible.

Yet even though he had become familiar to so many people both on the radio and in car circles, he

shared so little of his life, with even his friends. He used a post office box, and never disclosed where he actually lived, other than to say “Orange County.” He was reluctant to adopt technology, and preferred a lined yellow tablet scrawled with notes, which he used in front of him during every broadcast. If you called his cell phone, he rarely answered it, and his voice mail still had the generic greeting rather than one where you’d hear his voice. He did eventually embrace social media to a degree, snapping pictures with his iPhone and sharing lots of images of car events on his Instagram and Facebook pages.

We will be honoring Art with a special tribute edition of The Car Show very soon. Please see the show’s Facebook page for updates.

by Dave Kunz
Automotive Reporter, KABC-TV
Co-Host, The Car Show, KPFF-FM
Facebook: ABC7DaveKunz
Twitter: ABC7DaveKunz
Instagram: abc7davekunz

Early Bird Swap Meet is one of the First Auto Shows of the Season

We have attended the Early Bird Swap Meet presented by The Model T Ford Club of Tacoma for over 2 decades. This year it is the first car show and swap meet of the 2020 season at the Puyallup Fairgrounds.

The 54th Annual Event features the buying, selling, and trading of antique parts. Muscle cars, antique cars, collectables and a car corral.

Parking is FREE. Daily admission is \$10 with children under 12 FREE. Dates are Feb. 15th &

16th with hours on Saturday Feb. 15th - 8 am to 5 pm and Sunday Feb. 16th - 9 am to 3 pm.

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(Left to Right Front Row) Marc, Doug and Jon Ikegami Dealer Principals at Grand Opening of New Dealership



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CARS, STARS AND FILMS



Joyce Reports on Car Show Movies to see during The Holiday Season

continued from page 2

developments. Mauer has been responsible for developing the exterior and interior design of all Porsche models since 2004.

If you're in the mood for speed and want to see an epic car chase, catch "22 minutes of the film ("6 Underground") that are actually

//This holiday season, you're in the driver's seat whether you're watching movies with a fantasy starship design or....."

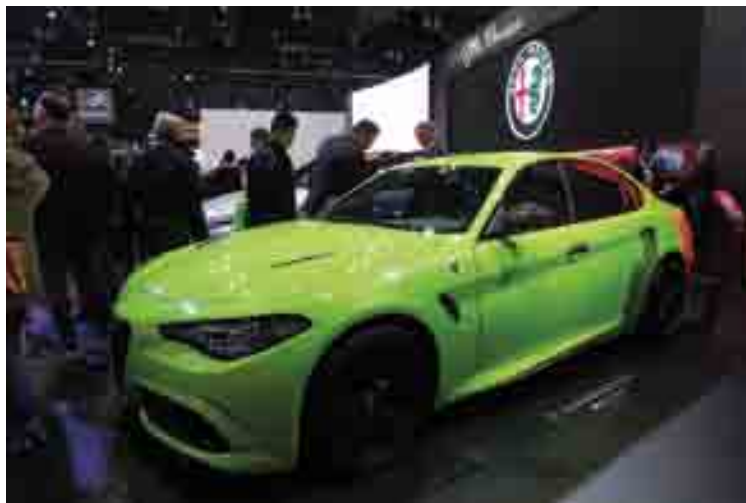
showcasing (Alfa Romeo) Giulia running around doing things that car people absolutely love and you always wish that you can do" shared Bob Broderdorf Jr, Director of Alfa Romeo N.A. at FCA US LLC at the LA Auto show.

Michael Bay, known for his Transformers franchise movies,

directs the most expensive Netflix ever made at a budget of \$150 million for "6 Underground". Ryan Reynolds from "Deadpool" stars in it along with the neon green Alfa Romeo Giulia. Add in a Maserati Quattroporte, Range Rovers, Ferrari 488 Pista and a Rolls-Royce Ghost and Florence, Italy as a backdrop and you're far, far away.

This holiday season, you're in the driver's seat whether you're

watching movies with a fantasy starship design with Porsche design DNA, enjoying the adrenaline rush of an epic car chase, or searching for your new dream car. Whatever you do, make this holiday season one to remember. Count your blessings. Take time for yourself. Give yourself the best gift, often the gift is in the giving. May the force be with you this holiday season.



Alfa Romeo Giulia at the LA Auto Show 2019 (photo by Joyce Chow)



Porsche Taycan Turbo (Image courtesy of Porsche)



Star Wars + Porsche (Image courtesy of Porsche)

Curing Kids Cancer - SubStation II has a Heart for Cures

This Southeastern based company is sharing its heart for cures!

This year Curing Kids Cancer was ecstatic to team up with SubStation II, a southeastern based sandwich shop franchise. After hearing the Owen family's story, Sandy Corbett, SubStation II's President/CEO and Allison Corbett, Director of Development, were ready to jump into action.

The Curing Kids Cancer heart is a special logo and now it is helping to spread even more awareness for the lack of funding for childhood cancer research. All SubStation II franchise owners were excited to join us in raising awareness during National Childhood Cancer Awareness Month. Each store is taking a donation for each icon, displaying banners as well as digital

boards about the partnership. On Thursdays employees wear gold cobranded T-shirts and corporate stores donate 10 percent of their earnings of the day to Curing Kids Cancer!

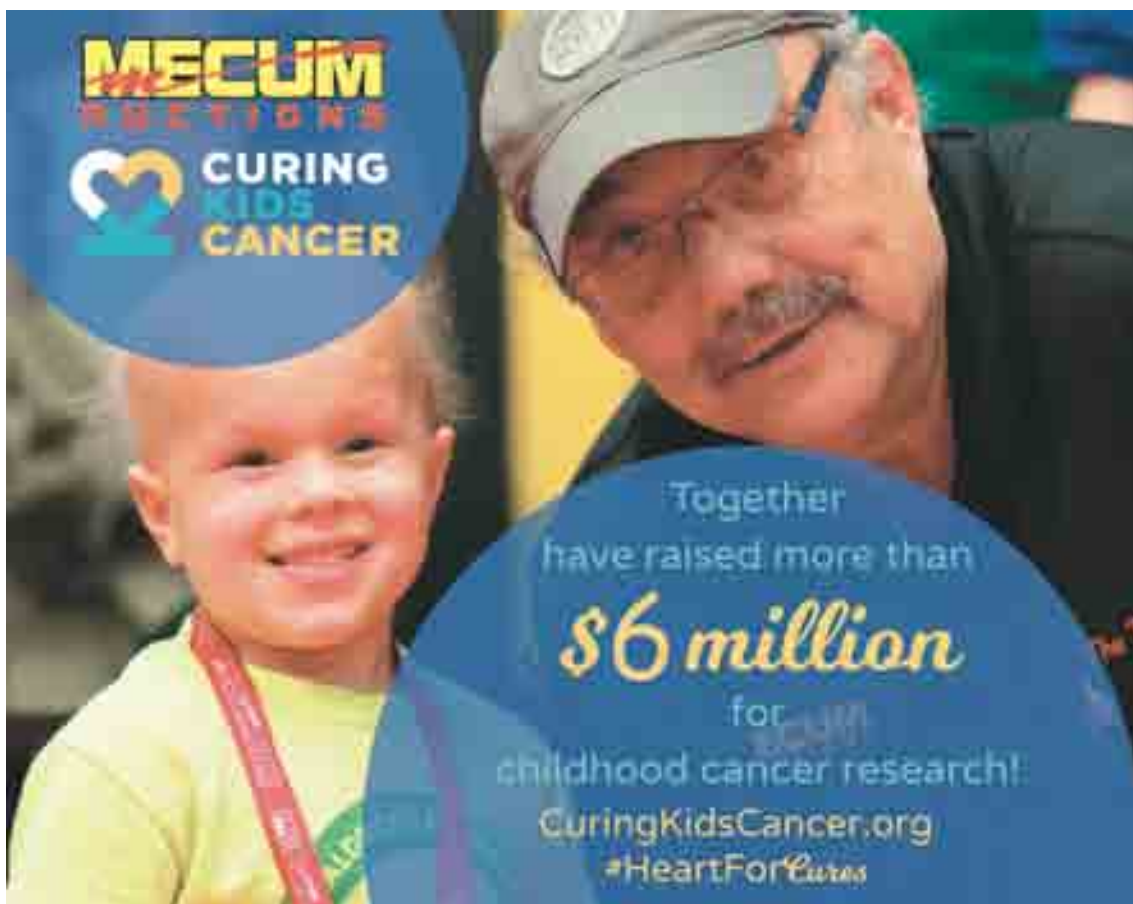
SubStation II also has its own connection to pediatric cancer as a franchise owner from Greer, S.C. had a granddaughter affected by a brain tumor. We are excited to say



that their granddaughter is doing well! In next month's newsletter, we will share her story as well as the grand total of this first year campaign.

We cannot thank SubStation II

enough for teaming up with us this September! SubStation II has 43 shops in five states so please visit one near you! Click here to learn more about SubStation II and Curing Kids Cancer.



CKC Co-founder and President Grainne Owen with Jerry Queen from SubStation II.



NEVER STOP DRIVING: A Better Life Behind The Wheel

by Bill McCallum

It was another busy week for McKeel Hagerty in a recent telephone interview explained to me how he got the idea for publishing Never Stop Driving. He said, “..... I was attending a global conference on the auto industry in 2017 when the CEO of an AI Tech company working on driverless technology said to me ‘..... I am sorry what we are doing is going to put you out of business’. “That started me thinking on how we needed to counter that misconception. Thus the idea for Never Stop Driving was born along with other programs Hagerty Media Properties LLC

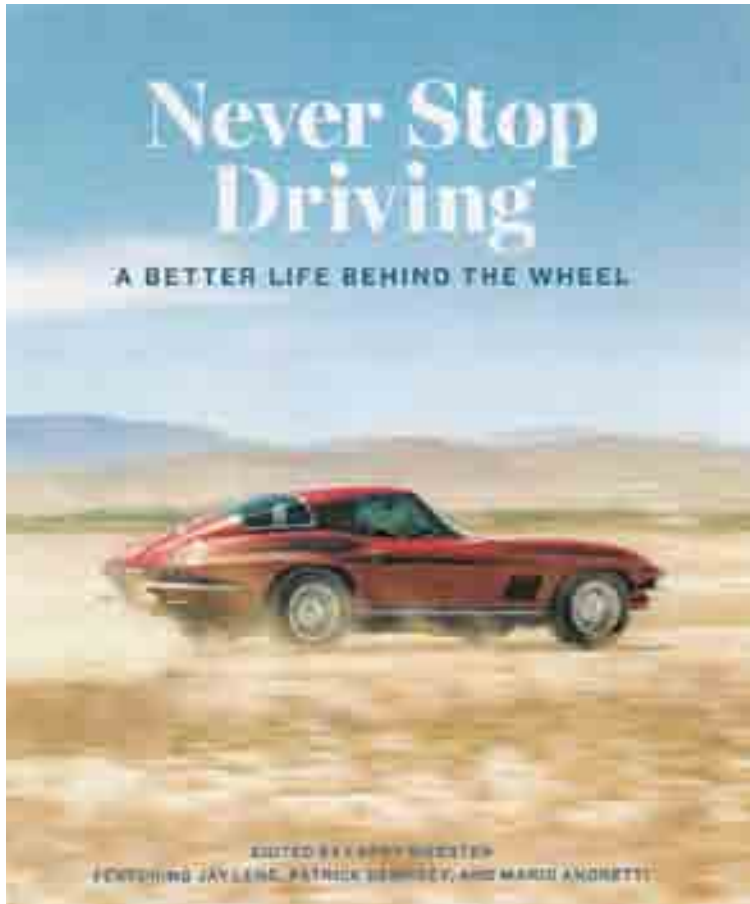
is developing.”

The fact is, everyday, countless millions of Americans still find relief from their over-connected stressed out lives by just going for a drive, or simply working on their cars.

In fact, every day countless millions of Americans still find relief from their over-connected, stressed out lives by just going for a drive, or simply by working on their cars.

With glorious photography and sharp writing, Never Stop Driving: A Better Life Behind the Wheel author and auto journalist Larry Webster – along with an

continued on page 9



Sally Hanson Visits Florida’s Biscayne National Park In A Toyota Camry



Toyota Camry enters Biscayne National Park’s Dante Fascell Visitor Center (named for a former congressman who was a dedicated supporter of the National Park’s creation).

continued from page 3

cylinder engine. Florida drivers are in a hurry to get somewhere, so I quickly got accustomed to acceleration. Fuel economy in the Camry averages 32 mpg from the 2.5-liter four cylinder engine paired with an eight speed automatic transmission.

Our destination was Biscayne National Park’s Visitor Center at Convoy Point, which sits on the bay shore nine miles east of the city of Homestead. The park borders the metropolitan area of Miami with 95 percent of the park area consisting of waters of the Biscayne Bay and Atlantic Ocean.

The park provides a respite from hectic metropolitan life with a place to spot dolphins, manatees, American crocodiles or just enjoy the natural sounds in a quiet place. The closest the Camry came to enjoying the incredible flora and fauna in the park was the parking lot at the Biscayne National Park’s Visitor Center.

A quarter-mile jetty trail at Convoy Point offers a glimpse of the above-water world of Biscayne, but to experience the park requires a boat trip. Convoy Point is the center for park activities, the starting point for boat tours, and the rental location for canoes, kayaks and paddle boats. One of the park’s most popular activities is a three-hour trip on a glass-bottom boat, which crosses Biscayne Bay, passes the Keys that form its eastern edge, and continues to the reefs, beyond the Keys.

There are four ecosystems in the park: mangrove, Biscayne Bay, islands and coral reef. The park protects the longest continuous mangrove shoreline on Florida’s east coast. Biscayne Bay sustains 70% of the area’s vital fish, crustaceans, and shellfish. The islands are composed of an ancient coral reef and mark the beginning of the Florida Keys. The coral reef is one of the most diverse wildlife communities on earth.

Even though the water adventures greatly outnumber the driving opportunities in Biscayne National Park and the Camry was parked while we enjoyed the birds, plants, animals and sea life, the Toyota Camry’s eighth generation sedan was definitely rested up and ready to go for a cruise further down the Keys to Key West.

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Hyundai Santa Fe Test Drive Review

by Bill McCallum

The 2020 Hyundai Santa Fe LTD 2.0T AWD was my ride on a recent road trip from Los Angeles to Phoenix and back with a stop in Palm Springs. There are seven features that separate the Santa Fe from the crowded field of mid-sized SUV's. 1- Visibility, best in class. 2- Quiet ride, no road noise. 3- Room, three row seating with lots of space for gear. 4- Simple, easy to use infotainment panel. 5- More than enough power-to-pass. 6- MPG, 30 + on the highway 7- Comfortable drivers seat design.

It's easy to understand how Hyundai has created a position of leadership in the SUV segment with the Hyundai Santa Fe, the compact Kona SUV, the midsize Tucson SUV and the all-new Palisade SUV. (see page 1 Palisade story) the 2020 Hyundai Santa Fe offers 6 Advance Safety Technology Standard Safety features that make city or open road driving safer for you the driver and your family. 1- Forward Collision Avoidance Assist. 2- Blind Spot Avoidance Assist. 3- Rear Cross Traffic Collision Assist. 4- Lane Keeping Assist. 5- Stop and Go Surround View Mirror. 6- Rear Occupant Alert

The 2.0L Turbo GDI engine gives you the "power-to-pass" and is mated with an 8-speed AT. With a starting MSRP of \$26,480 (\$39,200 as tested) the Hyundai Santa Fe deserves a look and a test drive.

(See Photo On This Page)

Is America's Power Grid Ready for Electric Cars?

continued from page 5

the process. Converting all those road miles to electricity would place new demands on the nation's system for producing and delivering electricity.

As part of a major energy infrastructure study, we are seeking to understand how an increase in electric vehicles (EVs) might change how energy is supplied and consumed. So far, we have figured out the impact of electric vehicles will depend on where you live and when they are charged.

Estimating how much electricity EVs will demand

Using a similar technique featured in our recent paper on hydrogen vehicles, we developed a state-by-state assessment of the amount of electricity that would be needed to charge an electrified fleet of personal cars, trucks, and SUVs.

We started by estimating the amount of gasoline every county consumes today. We then converted vehicle miles traveled into electricity requirements based on the efficiency of today's EVs.

Admittedly, these methods have limitations. The number of miles traveled could change significantly if autonomous vehicles become commonplace and more people rely on Uber, Lyft, and other vehicle sharing services, for example.

continued on page 19

SHOWCASE REVIEWS

HYUNDAI SANTA FE



Jasmine McCallum, Team Auto News with Hyundai Santa Fe in San Diego (photo Auto News)

HYUNDAI KONA ULTIMATE



Until the introduction of the all-new Venue the Kona was Hyundai's small value based SUV in the lineup

BASE PRICE: \$19,990
TYPE: SUV
ENGINE: 1.6 T GDI-4
TRANS: 7-speed AT
HORSEPOWER: 175 hp
MPG: 26 city / 29 hiway

SUBARU OUTBACK TOURING



Subaru continues to expand it's lineup with new exciting products such as the Outback Touring Model current available at dealers

BASE PRICE: \$37,345 As tested
TYPE: SUV
ENGINE: 2.5L Boxer
TRANS: CTV
HORSEPOWER: 182 hp
MPG: 25 city / 32 hiway

*** all information on vehicles as tested

HONDA CIVIC 4D TOURING



This value based Honda is loaded with new safety features and above average MPG. With new designs and more room it's a "winner".

BASE PRICE: \$27,300
TYPE: Sedan
ENGINE: 1.5 Liter
TRANS: CVT
HORSEPOWER: 174 hp
MPG: 30 city / 38 hiway

HYUNDAI PALISADE LTD



The all-new Palisade is Hyundai's large 3 row SUV. and is getting rave reviews from automotive journalists across the U.S.

BASE PRICE: \$48,400 as tested
TYPE: SUV
ENGINE: 3,8L GDI
TRANS: 8 sp AT
HORSEPOWER: 291 hp
MPG: 19 city / 26 hiway

VW Arteon 2.0T SEL R-Line



VW voted most improved non-premium brand by JD Power Sales Satisfaction Index Study. The all-new Arteon helped in the award

BASE PRICE: \$37,000
TYPE: Sedan/Hatchback
ENGINE: 2.0L Turbo I-4
TRANS: 8AT
HORSEPOWER: 268 hp
MPG: 20 city / 27 hiway

WOMEN in the AUTO WORLD

WOMEN IN THE AUTO WORLD

WOMEN in the AUTO WORLD

Methow Valley Artists Feature Automotive Art

Winthrop artist Char Gardner (left) and photographer Carolyn Edson (right) join a growing list of Northwest artists (see Sarah Deccio story on page 16) specializing in automotive art, paintings, drawings, and photos. Char Gardner collects rare car and truck emblems and mounts them on a piece of wood with a matching creative theme. Char displays her work at weekend markets and car shows in Eastern Washington. Carolyn Edson (carolynedson@gmail.com) is known throughout the Northwest for her photos of horses, is adding old trucks to her portfolio. (right)



Char Gardner with her art, CharGar1606@msn.com



Carolyn Edson with her photos



Surprise a Friend with a Pencil Drawing of their Special Vehicle



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Alan Smith, Scale Racing Center Owner Displays Sarah's Pencil Drawing of his Car (photo Auto News)



Sarah Deccio, Auto News Distribution Mgr. Displays the Pencil Drawing of her Truck (photo Auto News)



Caanon Russell, Owner, Ming's Zen Gallery in Issaquah with Pencil Drawing of his FJ Cruiser (photo Auto News)



Chris Chung with Pencil Drawing of his prized BMW (photo Auto News)



Gerber Motorsport is now accepting serious inquiries for EV conversions for Porsche and other fine European and collector cars.



The Northwest's #1 Porsche repair and restoration facility is now capable of expert EV conversions of Porsches and other fine European and Collector cars. No matter your thrust source - Gas/Diesel/Hybrid/Electric - Gerber gets it done!

Our Service Manager - Jay Krewson - comes to Gerber with years of European repair and maintenance experience, along with recent expertise on Tesla cars and EV conversions.



Gerber Motorsport is located at:
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Seattle, WA 98199
206-352-6911
www.gerbermotorsport.com

**Call to schedule a consultation
with Jay, our EV expert at
206-352-6911**

Ugly EV's Be Gone. EV in Style with a Converted Classic by Gerber Motorsport!

With EV's (electric vehicles) hitting the market from seemingly every auto manufacturer, it's hard to not notice that almost all of them are styled in a very conspicuous manner that screams "EV!" at the top of its lungs. This never made sense to me, as in my opinion, a lot of people would love to have the savings of an EV while keeping a low-profile.

Gerber Motorsport in Seattle, WA has recognized that and have now added EV conversions for classic cars to their repertoire of services.

About Gerber Motorsport:

Gerber Motorsport is a Seattle based premier Porsche and European car specialist. Originally founded in 1993 by Walter Gerber as a consulting firm for clients that needed professional racing and Porsche management services, Gerber Motorsport has evolved over the past 23 years to become one of the most trusted full-service European vehicle repair shops in the Pacific Northwest.

By 2016, Walter Gerber was looking to retire. Coincidentally Patrick Dobson, brother of Dominic Dobson was working at the shop as a mechanic. Dominic, a 7-Time Indy 500 and LeMans driver had previously raced for Walter under Bayside Racing; so naturally Walter couldn't think of any better successor than Dominic Dobson. The acquisition happened and Dobson Motorsport took ownership of Gerber Motorsport with Dominic now leading the shop.

EV Conversions, Virtual Reality, and Gerber Motorsport in the 21st Century:

Since acquiring Gerber Motorsport, the Dobson brothers have taken the company to new heights. The shop has been remodeled, a partnership with VR Motion has been established, but most notably, Gerber Motorsport has been certified to perform EV conversions and added this into their service mix. A move that keeps Gerber at the cutting edge of technology within the automotive realm and brings them the accolade of being the first shop in Seattle that is able to do these conversions.

When asked why Gerber made this move, Dominic Dobson gave insight into the industry:

"When you start looking around, there's a lot of older cars that have engines that have problems, or engines you can't get anymore and people are saying listen, we can't keep burning fossil fuels. We're seeing a lot of the young (race car) drivers that are coming

up through the ranks, and they're now of the mindset that electric cars would be cool."

Points in which I agree with. Having worked on a couple classic cars myself, it can be daunting tracking down parts, and building an engine only to have it get 12 mpg with mediocre performance numbers. Through EV conversion, much of this headache can be avoided while also yielding better performance than the original powertrain coupled with lower maintenance costs.

"People would be shocked at the performance gain" stated Dobson

With EV's there is no oil changes to be dealt with, services, or leaks. The benefits of an all-electric powertrain seemingly just go on. From fuel and maintenance savings, to instant torque, EV's just make sense. My only gripe has been the outlandish look of all the new EV's, but through conversion, people will be able to drive a vehicle with a classic car (or any car they want for that matter) aesthetic while still receiving all the benefits of an EV.

Gerber Motorsport's EV conversion segment is headed off by Jay Krewson, a Tesla UK veteran, and European automotive aficionado who joined the team in 2018. With Jay's EV expertise, and Patrick Dobson's 35 years of experience working on Porsche's and European cars, the Gerber team is able to convert virtually any vehicle into an electric vehicle. With all of the changes that the Dobson's have made, Gerber Motorsport's full list of services now includes:

- Maintenance
- Engine Building
- Major Repairs
- Restorations
- Track Preparation
- Virtual Reality Training
- Sales & Brokerage
- Electric Vehicle Conversions

All of these services are focused around Porsche and European brands. So whether you want EV performance in a classic car aesthetic, track preparation, or simply are a European car fan, check out what's happening at Gerber Motorsport at www.gerbermotorsport.com or contact them at (206) 352-6911.



Steve Saleen with S1 at Portland Race



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Truck King Challenge (photo on 17)

continued from page 6

Interior colour: Black/Dark Saddle
ENGINE: 3.6L Pentastar VVT V6 w/Stop-Start

MECHANICAL FEATURES:

4:1 Rock-Trac heavy-duty part-time 4x4 system 4.10 rear axle ratio, Fuel tank skid plate Transfer case skid plate Heavy gauge rock protection sill rails Torx tool kit Power tailgate lock Heavy-duty engine cooling, Class IV hitch receiver, Trailer hitch zoom, 240-amp alternator

TRANSMISSION: 8-speed Automatic

SUSPENSION: Front FOX performance shocks, Rear FOX performance shocks Tru-Lok front and rear axles Dana 44 M210 wide front axle Dana 44 M220 wide rear axle Electronic sway-bar disconnect system

WHEELS: 17-inch aluminum

The Challenge is all about "Real World" testing; in other words, we use these trucks the way you, the consumer, would. Each year, we enlist the aid of five experienced

Judges to drive the trucks back to back on our test loop. This year, with the mid-size truck capacities in mind we drove the 12-mile Head River loop empty and then we did it all over again with 500 lb of payload in the beds. Finally, each truck towed a flatbed trailer with a gross weight of 4,000 lb. This routine gives each judge a chance to "feel" the differences in each truck as they drive over the same course – again and again. Over two very long days we manage to collectively drive over 1,200 miles around this course. While there is always an off-road element to the Challenge; but this year, because of the unique off-road trucks we had - we spent significantly more time in the snow, mud and water.

When was all over – this is how the scores (out of 100) added up.

1. Chevrolet Colorado ZR2 Bison - 78.5 – Winner!
2. Jeep Gladiator Rubicon -72.5
3. Toyota Tacoma TRD Pro -71.3
4. Jeep Gladiator Overland -70.4
5. Toyota Tacoma TRD Sport -70.0

Jim Farley, Ford President & other Ford Executives Create Partnership with Mahindra

continued from page 9

business unit will play a key role in the process. IMG brings together 100 high-potential, emerged and emerging markets including India Australia, ASEAN, Middle East, Africa and Russia. In addition to the established Ford Ranger and U.S. import businesses in IMG, the formation of this joint venture will add to IMG's portfolio vehicles specifically tailored for emerging markets, and it places India very much at the centre of Ford's strategy for IMG.

Mahindra has led the utility vehicles segment in India for the past seven decades. The spirit of ingenuity has driven Mahindra to be among the few global companies pioneering the development of clean and affordable technology and it is the only player with a portfolio of electric vehicles commercially available in India. Expanding its global presence, Mahindra owns a majority stake in Ssangyong Motor Company in Korea. Mahindra also has entered into the shared mobility space with investments in ride-sharing platforms in the United States.

Ford was among the first global automakers to enter India in 1995. As one of the largest exporters

of vehicles from the country, Ford manufactures and exports vehicles and engines from its facilities in Chennai, Tamil Nadu and Sanand, Gujarat. India is the third-largest Ford employee base globally, with more than 14,000 people working across the Ford India and Global Business Services operations in Delhi, Chennai and Coimbatore. Under the new structure, Ford will continue its support for all corporate social responsibility initiatives.

About Mahindra

The Mahindra Group is a USD 20.7 billion federation of companies that enables people to rise through innovative mobility solutions, driving rural prosperity, enhancing urban living, nurturing new businesses and fostering communities. It enjoys a leadership position in utility vehicles, information technology, financial services and vacation ownership in India and is the world's largest tractor company, by volume. It also enjoys a strong presence in agribusiness, aerospace, commercial vehicles, components, defence, logistics, real estate, renewable energy, speedboats and steel, amongst other businesses. Headquartered in India, Mahindra employs over 240,000 people across 100 countries.



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Is America's Power Grid Ready for Electric Cars?

continued from page 14

However, we believe our approach provides a good starting point for estimating future electricity demand if EVs become the norm.

Regional impacts

The U.S. electric grid has continually evolved to accommodate new demands throughout the last century. But if the nation's vehicles were to rapidly become electric, the grid would need to change faster. Depending on local driving habits and the grid infrastructure that's already in place, our analysis shows that EVs will have different impacts in different regions.

Since Texas and California consume more electricity than any other states, they provide a good snapshot of what a future filled with electric vehicles might look like. In both cases, an increase in EVs would drive consumption higher, with the potential to strain local infrastructure.

If virtually all passenger cars in Texas were electrified today, the state would need approximately 110 more terawatt-hours of electricity per year—the average annual electricity consumption of 11 million homes. The added electricity demand would result in a 30 percent increase over current consumption in Texas.

By comparison, because of a more temperate climate, California might require nearly 50 percent

more electricity than it currently consumes if passenger vehicles in the state were fully electrified. That means California would need to generate an additional 120 terawatt-hours of electricity per year.

A tale of two grids

A look at the two states' grids demonstrates how reliance on EVs for mobility could vary from place to place.

On hot summer afternoons, Texas uses about half of the electricity it generates to power air conditioning to keep buildings cool. The large seasonal variations in electricity demand due to air conditioning means the state has power plants that sit idle throughout many hours of the year. The spare capacity during off-peak hours could make it easier for Texas to meet future electricity demands of EVs.

California's more temperate climate means the state needs less electricity on summer days, and less demand variability on the grid overall. As a result, California has less generation capacity available than Texas to meet future charging demands from electric vehicles.

In 2018, the Electric Reliability Council of Texas, the organization that manages most of Texas's electric grid, hit a new peak demand of roughly 73 gigawatts.



BIGGS ROVERS

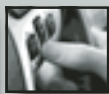
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TECHNOLOGY



“Van Powerhouse” – Mercedes-Benz of Lynnwood Gambles on Commercial Vans and Wins

Mercedes-Benz (MB) has long been a global leader in not only luxury passenger automobiles but also is the world’s largest manufacturer of commercial vehicles. MB was initially hesitant to launch the Europe-developed Sprinter Van in America though. With America immersed in “truck culture” and MB’s luxury brand recognition in the states, the auto giant was concerned that the US may receive conflicting messages seeing an economical, commercial van released under the MB name. In 2006, Mercedes took a risk and decided to move forward with the Sprinter release on US shores through Dodge and Freightliner Dealers. In 2010, MB decided to launched the Sprinter under their own brand and Mercedes-Benz of Lynnwood took a risk and became the first full-fledged van dealer in Washington State.

Mercedes-Benz of Lynnwood, has always been a well renowned dealership, priding themselves on their policy of putting “the customer first, no matter what”. By 2015, owner John Halata and his team had led the dealership to

two prestigious “Kundendienst” customer service awards, along with having won the Best of the Best award from Mercedes-Benz USA two years in a row. Given their history, things were going well with mainstream luxury vehicles. But when the Sprinter was released, Halata and his team had the foresight to invest heavily into vans.

“It just made too much sense, Sprinter Vans required less maintenance, were more maneuverable, were more versatile, and held better fuel economy numbers than standard commercial vehicles.”

So, when many of the other Mercedes-Benz dealerships were treading lightly into Sprinter retail, MB Lynnwood dove in feet first ordering as many as they could.

This move paid off for Halata and his team. When America caught on to the benefits of driving a MB van; sales soared, orders backed up, and manufacturing couldn’t keep up with the demand. MB Lynnwood’s commercial division led by Lance Frigard grew over 200%, while Sprinter sales experienced double, sometimes triple digit growth nationwide. By 2014, Mercedes-Benz of Lynnwood had become the largest Sprinter dealer in the Pacific

Northwest; and they again decided to double-down on vans and their customers, investing over \$8,000,000 in a new Van Service facility.

Today, MB Vans has gained a cult-like following in the United States. With the market recognizing its versatility. Sprinters have been used for everything from commercial vehicles to ambulances, luxury limos, and “week-end warrior” campers. MB USA has invested \$500 million in a new South Carolina plant to speed up production, and Mercedes-Benz of Lynnwood remains a partner in this effort.

Through their investments, MB Lynnwood has the largest Van service facility in the PNW allowing them, to service their customers as quickly as possible. I toured their facility, and you can tell that it was built with efficiency in mind. Every turn, garage door, and work bay was built with an engineering standard that only Mercedes-Benz would accept and meant to shave minutes off of service times. In alignment with their “customer first” model, MB Lynnwood also has a fleet of loaner commercial vehicles so that their clientele never have to have their businesses halt while their vehicle is in service.

“These Sprinters are our clients offices, their livelihoods. We want to make sure that we get them in and out as fast as possible to minimize down-time for them” stated Lance Frigard.

The Sprinter has also grown with Mercedes-Benz efforts. The 2019 model features a complete redesign, with significant improvements to driving characteristics, added creature comforts (USB charging ports, improved air conditioning, 110-volt outlets to power a laptop, and WiFi connectivity). New technology such as wind

assist, and electric steering makes maneuvering the vehicle a task that can be done with one finger. Safety is also always at the forefront with MB; artificial intelligence allows drivers to gather information without taking their eyes off the road, and “coffee warnings” remind drivers to take a break if it notices the driver nodding off.

If you want to check-out the new 2019 Sprinter, or need service done, make sure to meet with Lance Frigard at Mercedes-Benz of Lynnwood (lancefrigard@mblynnwood.com | (425) 280-5552).



Sprinter Van at Mercedes-Benz of Lynnwood



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Alan (left) Scale Racing Center owner hosts slot car competition at Legends Gala (See Story on Page 10)



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TIRES

Yokohama Launches New Winter Tires

Winter is coming...and Yokohama Tire is ready with the launch of two new products: the iceGUARD® iG53 and iceGUARD® G075.

"Both are premium winter tires that are ideal for the toughest icy conditions," said Bob Abram, Yokohama's senior manager of consumer product planning. "Besides offering exceptional ice/snow traction and all-around performance, the iceGUARD iG53 and iceGUARD G075 feature additional benefits such as improved fuel efficiency, longer tread life and a quiet ride."

The iceGUARD iG53 is designed for passenger cars and minivans, and comes in 32 sizes with 14- to 18-inch fitments, while the iceGUARD G075 is for crossovers and SUVs, and is available in 37 sizes in 16- to 20-inch fitments.

The highly advanced iceGUARD

iG53 and iceGUARD G075 stick to the road in harsh, winter weather due to the new directional tread pattern that increases the contact area and maximizes the edge effect on icy/snow surfaces. The tread pattern features zig-zag-shaped main and intermediate grooves, a wide center rib, micro diagonal grooves and 3-D triple sipes.

Additionally, the iG53 features Yokohama's new absorptive tread compound, which lowers the risk of micro-hydroplaning on icy surfaces by putting the tire into contact with the ice rather than the water.

The G075 features a high-density reinforced compound, which allows for a more stable tread block that provides optimized road contact and longer, more even wear.

Fuel efficiency gains for both tires come from the newly developed, low-heat generating under tread compound,

which increases stiffness and contributes to low rolling resistance.

For more information on all of Yokohama's winter tires, visit <https://www.yokohamatire.com/winter-tires>.

About Yokohama Tire Corporation

Celebrating its 50th year in the U.S., Yokohama Tire Corporation is the North American manufacturing and marketing arm of Tokyo, Japan-based The Yokohama Rubber Co., Ltd., a global manufacturing and sales company of premium tires since 1917. Servicing an extensive sales network throughout the U.S., Yokohama Tire Corporation is a leader in technology and innovation. The company's complete product line includes tires for high-performance, light truck, passenger car, commercial truck and bus, and off-the-road mining and construction applications.



Yokohama - iceGUARD Winter Tires

Pirelli Selected As Exclusive Tire Supplier For The Brand-New Aston Martin DBX



2020 Aston Martin with Pirelli Tires

Nearly three years of hard work in close collaboration with Aston Martin's engineers have resulted in three different tires to showcase the capabilities of the new DBX. This latest Aston Martin is equipped exclusively with Pirelli tires, following a painstaking development process designed to meet the exact requirements of the famous British manufacturer. The P Zero for the DBX has been developed to offer the best possible performance and handling while the Scorpion Zero AS will go off-road, and the Scorpion Winter delivers safety and performance even in winter conditions, with the same dynamic drive as experienced in summer.

This joint development work, which is a hallmark of Pirelli's 'perfect fit' strategy, began with laboratory testing before moving on to outdoor testing in varied conditions. The wet weather capabilities of the tires for the new Aston Martin DBX were refined at Pirelli's test track in Vizzola near Milan, while tire performance on ice and snow was honed at Pirelli's winter test facility at Fleurheden in Sweden. Outright performance was developed at the famous high

speed Nardo circuit in southern Italy. The final validation came at the epic Nürburgring Nordschleife in Germany: the ultimate test for any car and tire package.

P Zero, A Tire For Gran Turismo

The new Aston Martin DBX delivers maximum performance thanks to P Zero tires that have been developed especially for the vehicle. In particular, the compound is derived from tires used for GT cars, to maximise the V8 turbo power of the new Aston Martin. The P Zero compound for the DBX also produces maximum grip on the track. The zero-degree belt in the structure of this P Zero marked A8A on the sidewall (to identify specific tires for the Aston Martin DBX) uses a new hybrid material that offers better steering feel to enhance pleasure behind the wheel. Furthermore, it brings the overall weight of the tire down, reducing rolling resistance and fuel consumption.

Scorpion Zero As, For Sports Performance Off Road

The Pirelli Scorpion Zero AS is instead designed for those who also intend to use their DBX off-road. Aston Martin's goal is to create possibilities for their customers, by offering a vehicle that is as versatile as possible while maintaining the performance and emotion that is synonymous with their cars. To achieve this objective, the Scorpion Zero tread pattern has been redesigned to optimize its off-road capabilities, with more rigid blocks towards the outside of the contact patch that provide enhanced grip in tricky conditions.

Scorpion Winter: Maximum Safety On Ice And Snow

The Scorpion Winter, Pirelli's specialized winter tire for SUVs, has been optimized for winter weather – right down to temperatures of -22oF– to guarantee maximum efficiency even in the most extreme conditions. Pirelli has modified the materials that make up the carcass of this tire to provide the best possible steering feel, even in winter. As a result, performance driving is not just a summer activity in the DBX.

Pirelli And Aston Martin

Pirelli and Aston Martin have always enjoyed a long and close relationship. The arrival of the new DBX, which is only available to run on Pirelli tires, means that the Italian firm now equips 50% of all new Aston Martins, including iconic models such as the DBS Superleggera and new Vantage.



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DOUG'S AUTO

Doug's Auto, a collision specialist, is "reinventing itself," according to Doug Casady, owner of Doug's Auto, a long-time Eastside collision specialist located in Factoria.

It is a family-owned business with Doug's wife and two sons, Jeff and Steve, involved in the business. With seven employees, they can work on up to 20 vehicles at a time and have recently added a mobile automotive refinishing division headed up by Jeff Casady. The mobile business specializes in rock chip repair, minor collision work,

bumper repair, and scratch removal. Doug's is also "going Green" with the addition of a Toyota Highlander and Camry Hybrid and two Prius loaners to be used in the business. Doug's Auto offers rental cars, and towing is available. Doug said, "We have been in business 36 years, and now the second generation is taking over and helping us be the best body shop in Bellevue." (Pictured from Doug's car collection are, left to right, a '72 Mustang, '56 Ford T-Bird, '66 Blue Mustang, '74 MG, 57 Chev, '74 Corvette, and a '67 Olds Convertible.



AMERICAN MUTUAL INSURANCE SERVICES

Bill Smallwood III is a "car-guy" with 22 years in the business. His business, American Mutual Insurance Services, LLC specializes in collector car insurance and is the largest Hagerty Collector Car Insurance agent on the West Coast.

In addition to the Hagerty brand, Bill represents Grundy, Heacock, Classic Collectors, Safeco, Travelers, GMAC, Met Life brands and many more.

Bill's insurance agency represents

clients in WA, OR, ID, CA, and AZ, has 10 employees, and is a full service agency. Bill is also active in the car collector hobby and has helped organize the "Mustang Roundup" for a number of years as well as other car shows. Bill participates in a number of NW collector car shows as a vendor. Bill said, "I am passionate about cars, and my rates are very competitive." Sounds like a good combination to me. See the American Mutual Insurance Services LLC ad in the Auto News Service Directory.

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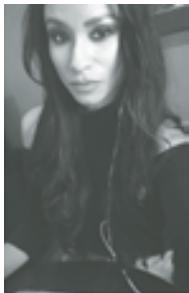
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our customers embrace the fact that we are reselling used sports racks." He went on to say, "..... we are helping to protect the environment by recycling thousands of used parts used in the racks." New brands sold by ReRack include; Yakima, Thule, Rocky Mounts, Rhino, Kuat, Inno and more. ReRack is the best place to buy your next new or used vehicle sport rack.

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PET FRIENDLY AUTO MAKERS



Automakers Promote Pet Safety Programs

continued from page 4

DNA. Now, we are starting to see other manufacturers follow suit. Here are just a few examples of what car companies are doing to keep our furry friends safe on the road.

Hyundai - A long trip or a trip to the mall are made easier with Hyundai pet safety and travel accessories. With Hyundai pet seat covers your seats stay clean and your pet will be much more comfortable. Hyundai also makes pet ramps help small or elderly pets climb in and out of your vehicle with ease. And Hyundai pet liners keep your floor clean and dry.

Toyota - Toyota has a full line up of vehicles built for adventure with

your pets. The Rav4 features a 60/40 split, reclining, fold-flat second-row seat which is a perfect place for your pet. The Toyota Tundra is a great vehicle because it boasts plenty of room for the kids and your pets. In addition, the Toyota 4Runner is another pet-friendly vehicle that you can explore. This model has 40/20/40 split reclining and fold-flat second-row seat to give you more space for your luggage and the gear for your pet.

Mazda cars are for pet lovers too! The Mazda 3s's fold-flat rear seats, rear lift gate, low ride height, spacious cabin and handy under floor storage make it an ideal vehicle for a dog owner. In addition to producing pet-friendly vehicles, Mazda

also has an ongoing partnership between the Mazda Foundation and the SPCA.

How about those Helpful Honda People? Many Honda dealerships participate in an annual Helpful Honda Pet Adoption to help dogs and cats find their forever homes. By hosting pet adoptions at dealerships, they provide new pet parents with free dog washes, leashes, food bowls and doggy bags.

These are just a few examples of what car companies are doing to keep our pets safe. Here are a few helpful hints on pet safety for car travel.

• Pets should have their own space in the vehicle, preferably in the cargo area or restrained in the

back seat using a leash and harness

- Don't ever leave your pets in a hot car
- Don't let your pets distract you or risk getting injured during sudden stops
- Make your pets comfortable, give them a blanket or chew toy to help them relax on the road



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The 1968 Mustang GT Driven by Steve McQueen in Classic Film "Bullitt" to Cross the Block During the World's Largest Collector Car Auction

After more than 40 years spent so well hidden that most believed it had been destroyed, the hero car from the Warner Bros. movie "Bullitt" reemerged in January 2018 at the North American International Auto Show in Detroit, and it's now slated to cross the Mecum auction block at the world's largest collector car auction this coming January in Kissimmee, Florida. Known simply as "Bullitt" after its namesake motion picture, the original Highland Green 1968 Mustang GT was driven by the "King of Cool" Steve McQueen at dangerously high speeds through the busy streets of San Francisco as the hero car in one of his most memorable motion pictures, and it is now on the fast-track to joining the ranks of the most valuable American-made collector cars ever sold at auction.

One of just two Mustangs used to fill the role in the 1968 action/

thriller "Bullitt," named after main character Lt. Frank Bullitt played by McQueen, this car was the film's "hero" car and was driven by McQueen in countless scenes throughout the movie, including in the infinitely famous car chase scene, which went on to become the most influential car chase scene in all of film history. After the filming of "Bullitt" concluded, this car was sold to a private buyer and was thought lost to history until its unveiling for the 50th anniversary of "Bullitt" just last year. The car—considered by many to be the world's single most recognizable and celebrated vintage Mustang—remains in original condition and retains many distinguishable and unique elements from the movie.

The announcement of the car's upcoming offering at the Jan. 2-12 Kissimmee 2020 auction was made at Mecum Monterey 2019 with auto and entertainment reporters, photographers, social media influencers and others looking on as the Bullitt

Mustang was presented under tight security in a one-car "glass house." Longtime owner, Sean Kiernan, was present alongside Mecum Auctions President and Founder Dana Mecum for the reveal and announcement of the car's impending sale,

and it proved to be an emotional unveiling for the second-generation caretaker who originally inherited the car from his father.

Last seen at LeMay—America's Car Museum in July, the 1968 Bullitt Mustang will be exhibited at

various automotive events around the country leading up to the Mecum Kissimmee 2020 auction in January.

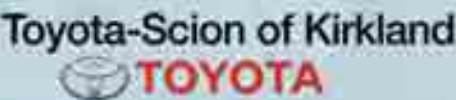
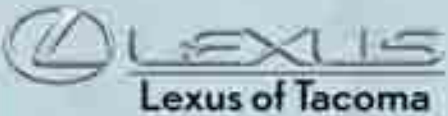
For interview and photo requests, please contact dmorton@mecum.com.



Dana Mecum and Sean Kiernan Address the Crowd at Mecum Auctions in Monterey

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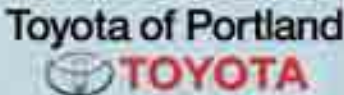
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Richie Brothers Leake January 15th thru 19th Scottsdale Arizona Auction to feature John Stallupi's “Cars of Dreams” Collection

by Christopher Chung
Leake History:

LeakeAuctions, founded in 1964 by James C Leake, Sr is the oldest Collector Car Auction company in America. Leake Sr. an automotive enthusiast himself, had a passion for old cars. For many years, Leake had stockpiled vehicles in his grocery warehouses. Eventually, Leake gave in to the insistence of his wife to reduce his fleet, and auctioned off some of his vehicles at his first auction in Muskogee, Oklahoma. Little did he know, Leake had just created a collector car auction industry that would later become a \$1 billion dollar business.

When starting off, Leake had founded the company on his core principals: Quality, Respect, Knowledge, and Loyalty. With these principals, Leake Auctions set the standard for the car auction industry for 46 years. After Leake Sr.'s passing in 2001, his daughter Nancy Leake Sevenoaks led the dynasty and continued the companies customer-centric values. In January 2018, Leake Auctions was acquired by Ritchie Bros, a global player in the auction industry.

Gary Bennett's Return:

With the acquisition, Gary Bennett was named Manager of LeakeAuctions. Bennett himself had gotten his start in the classic car industry with Leake Auctions back in 1971; buying and selling collector cars. Now with over 50 years of experience in the industry, and an impressive resume including 17 years as VP of Barrett-Jackson Auctions, Bennett has returned to lead Leake Auctions.

Bennett, who is a well respected player in the industry is known for his honesty, integrity, and credibility seemed perfectly aligned to lead Leake Auctions. With Bennett now at the helm Leake has set their eyes on expansion. Bennett's goal is to increase the frequency of Leake Auctions, holding up to 10 sales a year. One of his first moves was the expansion to Scottsdale.

January 15-19, 2020 Scottsdale Auction:

Bennett and Leake Auctions move to Scottsdale seems to be shaping up to be an astute decision. With Arizona Car Week being one of the largest auto auction weeks (in 2018, 2,668 vehicles an \$247.8 million in sales), in addition to the 3.9 million users registered to Ritchie Bros Auctions, Leake will have one of the largest potential buyer bases in the collector car industry. Furthermore, the 2020 Scottsdale Auction is projected to be the largest auction Leake has ever facilitated. Beating out even their most recent Tulsa Auction which had more than 500 vehicles offered.

Still, Leake Auctions seems to be keeping their foot on the pedal as well. Most recently it was announced that John Stallupi's "Cars of Dreams" collection of nearly 120 cars will be offered without reserve at Leake Auctions First Inaugural Scottsdale event.

With Stallupi's collection, a prime location at Salt River Fields, and the large audiences of Leake, Arizona Car Week, and Ritchie Bros auctions; the 2020 Scottsdale event will not be an auction you want to miss. For more information about Leake Auction Company or to request information about their Scottsdale auction, visit LeakeCar.com or call +1.602.442.3380.



John Stallupi in his Collector convertible (photo Leake)

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