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December 2018 / January 2019

Issue No: 41

FREE!
Online
Magazine

THIS MONTH:

Drag Strip Riot

Spruce Creek Toy Parade

Wings over Camarillo

and Much More

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NASA Image of the Day

SS John Young Cargo Craft Docks to Space Station

"Captured Cygnus today with @Astro_Alex...Proud to have The SS John Young on-board!" said astronaut Serena Auñón-Chancellor, as the International Space Station crew brought aboard the latest Northrop Grumman Cygnus cargo craft, loaded with almost three tons of food, fuel and supplies.

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Editorial Team: North America Editor – Steve Wood West Coast Contributors - Jim (Flybum) Pratt, Tim Sowell Canada - Jim Swan Cruisin' & Hot Rod's - Gary Rosier UK Team - The Gremlins at Kew

In this issue we are featuring the Spruce Creek Toy Parade, 2018 - Plus much more . . .

Take a look at the next page - the magazine index - for more details

Blue Sky's and Safe Flying.

The Speedi Team

*Speedi Wings & Wheels is a wide screen format magazine
Best viewed in full screen single page HD mode*



7 Spruce Creek Toy Parade 2018

Speedi Wings & Wheels

CONTENTS



7 Spruce Creek Toy Parade 2018: The annual Toy Parade from Spruce Creek Fly-in, near Daytona Beach, Fla, USA - the world's largest flying community . . .

55 Wings over Camarillo 2018: The annual Wings over Camarillo air show from, guess where - Camarillo, CA. Our West Coast correspondents, Jim (Flybum) Pratt and Tim Sowell were there for the fun . . .

113 Drag Strip Riot 2018 The 2nd annual Drag Strip Riot - a visit to Orlando Speed World by Gary Rosier to enjoy the high octane drag racing from the heart of Central Florida . . .

Regular Features:

- 5 AvNews:** Snippets of aviation related news
- 41 Speedi's Blog:** Steve Wood looks at 'what's hot and what's not' in the world of aviation
- 42 News from the Barn:** News of the events & 'happenings' at Spruce Creek Fly-in.
- 87 AutoNews:** Top titbits of Auto News
- 90 Gone Cruisin':** Hot Rods & Cruisers and more . . .
- 140 SpeediCity:** Fun and action from Daytona Beach

55 Wings over Camarillo



113 Drag Strip Riot



Electric thrusters promise space revolution

While Thales Alenia Space, (a joint venture between Thales and Leonardo), is a well-established name in global space industry, it is a newcomer to the UK's fast-emerging space sector, only starting up in 2013. Says its CEO Ben Olivier: "Thales Alenia Space is relatively new in the UK. It started up in 2013 and there has been a big investment in the UK. One of the key platforms of that investment has been the development of the electric propulsion modules for the Thales Alenia Space geostationary communications satellites product line we call Spacebus NEO. It's the next generation of geostationary communication satellites."

As well as extending the life of existing satellites and lowering the cost of launch by reducing the mass – electric propulsion could also open up a whole new niche in satellites – Skimsats, according to Olivier. "We have a programme at the moment which is looking at flying even lower – as low as 160 or 200km, rather than traditional LEO satellites at 400-500km. Because it's more efficient, if you use the chemical propulsion system to fly low, you'd need an enormous amount of propellant. Whereas because electric is five to ten times more efficient, you can fly nearer the Earth."

These satellites, orbiting lower than other satellites in LEO, would keep position by using electric thrusters as they skim the upper atmosphere, which otherwise would soon drag

any spacecraft back to Earth within one or two months. "If you fly very low you would re-enter in weeks or months. But electric propulsion's efficient enough and you don't have so much aero drag at 200km that a thruster with a few tens of millinewtons can overcome that" says Olivier.

An early demonstrator of this kind of satellite was ESA's GOCE (Gravity Field and Steady-State Ocean Circulation Explorer) which used a low orbit (268km) to study the Earth's gravity field. Powered by a xenon electric thruster and launched in 2009, Thales Alenia Space was the prime contractor on GOCE.

The benefits of these very low Earth orbits (VLEO) are that orbiting this low allows for a step-change reduction in the size, mass and cost of imaging payloads – giving 1m high-resolution imagery from small, cheap satellites under 75kg. Says Olivier: "You even get advantages in communications because you can more directly point your beam on the ground." Smaller instruments and apertures on Skimsats, thus mean that what might just be experimental science missions or payloads, could become operational.

This level of imagery, fast revisit times and the limited lifespan (24-36 months) means that low-cost-Skimsats real competition may not be other larger imaging satellites, but the emerging sector of HAPS (high altitude pseudo satellites) UAVs – which aim to provide



satellite-like services at a lower cost. Notes Olivier: "What we're doing is building satellites that might last two or three years, fly at 200 kilometres, have very high resolution but very low cost. And the idea is you launch a number of them together, because they can be a lot smaller if you're flying close to target, and you bring them down when you need them. It's a sort of an operational response, which is different from global UAVs."

The limited lifespan (two years) is also beneficial for these micro Skimsats, launched quickly, perhaps in response to disasters or geopolitical crises, in that it aligns almost perfectly with the 18month consumer technology cycle – allowing better, smaller and lighter sensors to be upgraded on each subsequent launch.

Finally, VLEO Skimsats also come with an in-built advantage in that flying this low at the edge of the atmosphere they will automatically de-orbit quickly due to air resistance and drag, once out of fuel, leaving no space debris after them. With growing concerns about space junk and 'mega-constellations' of tiny satellites, de-orbiting techniques are becoming more and more important.

Richard Branson Welcomes Astronauts Home from Virgin Galactic's Historic First Spaceflight

13 December 2018

History has been made and a long-anticipated dream realised in Mojave, CA, today as Virgin Galactic's SpaceShipTwo, VSS Unity, landed from her maiden spaceflight to cheers from Richard Branson and the teams from Virgin Galactic and The Spaceship Company.

Not only is this the first human spaceflight to be launched from American soil since the final Space Shuttle mission in 2011, but the very first time that a crewed vehicle built for commercial, passenger service, has reached space.

The historic achievement has been recognised by the Federal Aviation Administration (FAA) who announced today that early next year they will present pilots Mark "Forger" Stucky and Frederick "CJ" Sturckow with FAA Commercial Astronaut Wings at a ceremony in Washington DC. CJ, as a four-time Space Shuttle pilot, will become the only person to have been awarded NASA and FAA wings.

Today's accomplishment has also been recognised by the NASA Flight Opportunities Program, which flew four space science and

technology experiments on VSS Unity, making this Virgin Galactic's first revenue generating flight.

The spectacular spaceflight, which was witnessed by a large crowd of staff and their families, as well as special guests and media, saw a 60 second planned rocket motor burn which propelled VSS Unity to almost three times the speed of sound and to an apogee of 51.4 miles.



As VSS Unity coasted upwards through the black sky and into space, Virgin Galactic Mission Control confirmed the news and congratulated the two astronaut pilots: "Unity, Welcome to Space".

After a Mach 2.5 supersonic re-entry into the atmosphere, which utilised Unity's unique "feathering" configuration, Forger and CJ guided the spaceship down to a smooth runway landing and an emotional homecoming welcome.

Commenting from the flight line Richard Branson said: "Many of you will know how important the dream of space travel is to me personally. Ever since I watched the moon landings as a child I have looked up to the skies with wonder. We started Virgin nearly 50 years ago dreaming big and loving a challenge. Today, as I stood among a truly remarkable group of people with our eyes on the stars, we saw our biggest dream and our toughest challenge to date fulfilled. It was an indescribable feeling: joy, relief, exhilaration and anticipation for what is yet to come.

"Today, for the first time in history, a crewed spaceship, built to carry private passengers, reached space. Today we completed our first revenue generating flight and our pilots earned their Commercial Astronaut Wings. Today, we have shown that Virgin Galactic really can open space to change the world for good. We will now push on with the remaining portion of our flight test program, which

will see the rocket motor burn for longer and VSS Unity fly still faster and higher towards giving thousands of private astronauts an experience which provides a new, planetary perspective to our relationship with the Earth and the cosmos. This is a momentous day and I could not be more proud of our teams who together have opened a new chapter of space exploration."

Boeing Delivers the 787th 787 Dreamliner

AerCap, world's largest airplane lessor, adds to its growing 787 portfolio

Special milestone airplane to be operated by China Southern Airlines

EVERETT, Wash., Dec. 13, 2018 /PRNewswire/ -- Boeing [NYSE:BA] today delivered the 787th 787 Dreamliner to come off the production line, marking a special milestone for the super-efficient airplane family and the fastest-selling twin-aisle jet in history.

Since its first delivery in September, 2011, the 787 family has flown nearly 300 million passengers on more than 1.5 million flights around

the world, including more than 210 new nonstop routes made possible by the airplane's superior fuel efficiency and range.

"Reaching this milestone delivery is a testament to our amazing Boeing team who build the world's most capable and reliable airplanes," said Kevin McAllister, president & chief executive officer for Boeing Commercial Airplanes. "This delivery also reflects the special capabilities of the 787 Dreamliner. The growing fleet continues to deliver unmatched efficiency, open new routes, and provide an exceptional passenger experience."

The airplane was delivered to AerCap, the world's largest lessor and 787 customer. Sporting a special logo commemorating the production milestone, the airplane will be leased and operated by China Southern, which continues to

expand its long-haul fleet of 787 Dreamliners, including 10 787-8s and eight 787-9s.

"As one of the 787 launch customers and the first Chinese airline to operate the 787, we are honored to celebrate this important milestone with China Southern Airlines," said Ihssane Mounir, senior vice president of Commercial Sales & Marketing for The Boeing Company. "We also thank AerCap for their large commitment to the Dreamliner. They continue to be a valued partner and we look forward to celebrating many more milestones with them in the coming years."

China Southern Airlines first ordered 10 787-8 Dreamliners in 2005 and further increased its capability on long-haul routes when they placed an order for 787-9s in 2016.

The 787s have enabled the airline to launch a number of non-stop global routes, connecting Guangzhou to London and Rome in Europe; Vancouver, British Columbia, in North America; and Perth, Auckland, and Christchurch in the Oceania region.



Airbus delivers 100th A320 Family aircraft assembled in the U.S.

11 December 2018

Airbus has delivered its 100th aircraft from the company's U.S. Manufacturing Facility in Mobile, Alabama. The A320neo, serial number (MSN) 8580, was delivered to Frontier Airlines. The aircraft features two horses, Meadow & West, on its tailplane.

Airbus' Mobile facility is delivering four A320 Family aircraft per month and has delivered to eight U.S.-based customers thus far, including Air Lease Corporation, Allegiant Air, American Airlines,

Delta Air Lines, Frontier Airlines, Hawaiian Airlines, JetBlue Airways and Spirit Airlines. Airbus has three other A320 Family production facilities around the world: Hamburg, Germany; Tianjin, China; and Toulouse, France.

Photo caption: The 100th aircraft to be delivered from Airbus' production facility in Mobile is seen here on its first flight in November 2018. It was delivered to Frontier Airlines on Dec. 11.

Toy Parade 2018

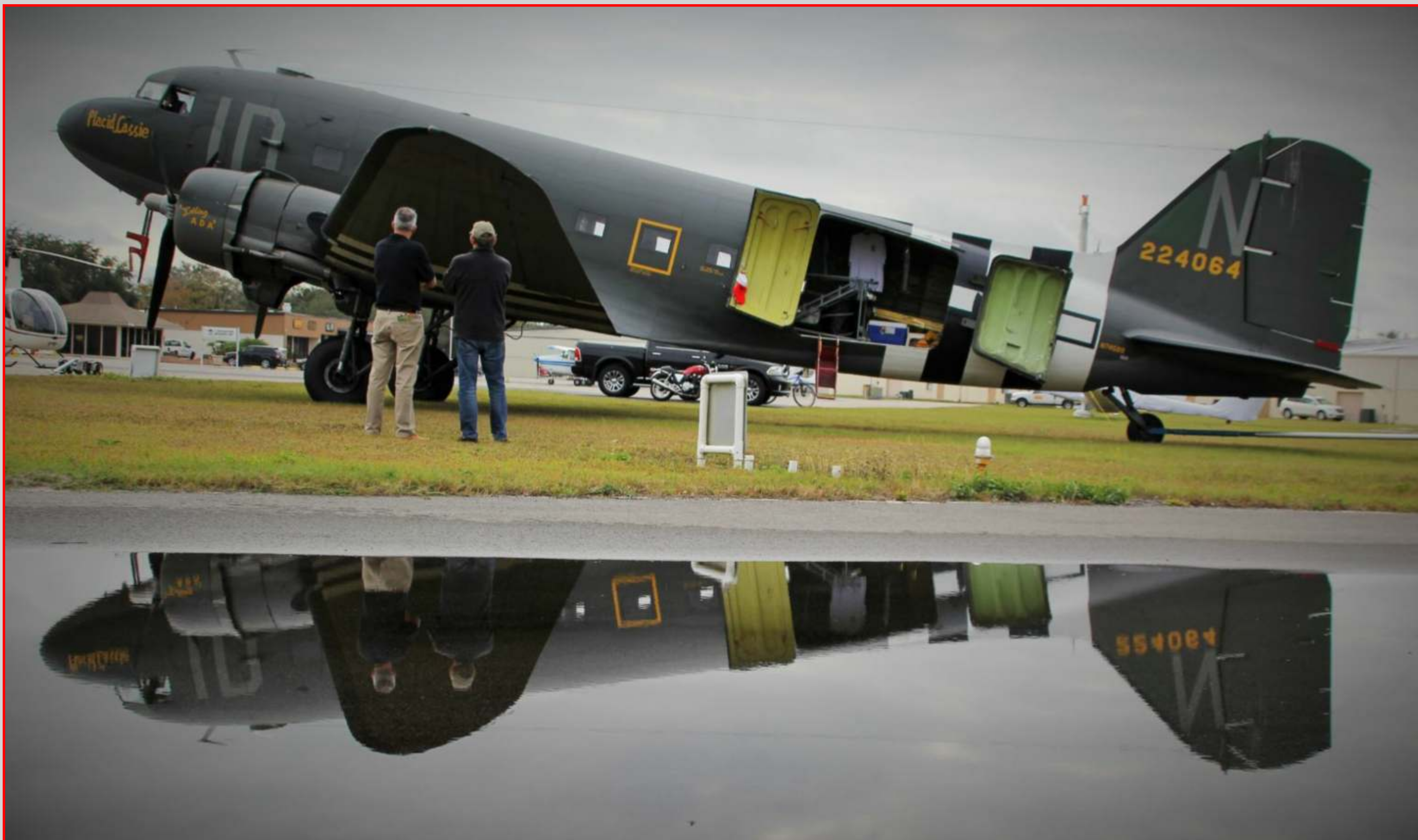




































































SPEEDI'S BLOG

WELCOME TO SPEEDI'S Blog.

The Spruce Creek Toy Parade has come and gone for another year. This year, for the first time for many years, the Parade was held on the *rain date* of 16 December.

The rain clouds cleared and the sun shone. Far better than the soggy conditions on originally planned day which would have decimated the decorated planes and vehicles.

There's a special feature on this year's Toy Parade on pages 7 through 40 of this issue.

I flew *'Goofy'* in the fly-past as #6 in Lakes Flight of 6. The reason for me flying as #6 is that I was the only plane in the flight with smoke. Despite what appeared to be good flying conditions the air was very choppy so the flight was more challenging than normal.



The photo above from my left wing tip camera shows Lakes Flight in the *'break'* above Spruce Creek.

I decorated my BMW R1150 GS motorcycle and won first prize in the motorcycle section, photo below.



I loaned my 1959 BSA Rocket Gold Star prototype to a good friend to ride in the parade. The BSA was not judged but attracted a lot of attention, photo right.

One of the *'hot'* topics in aviation news from the

UK is that London Gatwick airport has been closed for 2 days following the sighting of a drone or drones in the vicinity of the runway.

This irresponsible (and perhaps terrorist?) activity has caused chaos and disrupted the holiday plans of many thousands of families.

I guess it was just a matter of time before drones were used in this way.

The UK CAA prohibits the flight of drone within 1km of an airport. Here in the USA the prohibited distance is 5 miles. Quite why the UK uses 1km who knows - apart from the fact this distance may have been dictated by the EU aviation authorities. Apparently in Germany>



< the prohibited distance from an airport is 1.5 km.

Drones offer enormous benefits but like any item of technology the *'bad guys'* are often way ahead of the authorities in their unlawful use.

By the time you read this blog, Christmas will have come and gone and it will be the New Year.

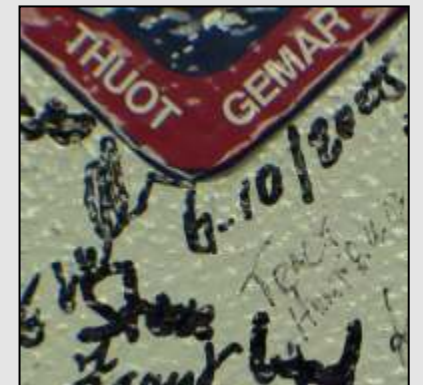
Virgin Galactic made history on December 13th, 2018 when their

It's some 7 years since the last Space Shuttle launch - an event I was privileged to witness as a journalist from as close as anyone could get to a launch.

However, what I really remember as I'd been watching shuttle launches for many years from the Kennedy Space Center in Florida, is a visit to KSC as a journalist in 2012 when I was allowed to sit in the Commander's seat of

Atlantis after it had been decommissioned and before it was put on public display.

I was also actually *'allowed'* to put graffiti on a bulkhead in Atlantis. Thank you KSC.



VSS Unity was propelled into space orbit 51.4 miles above the Earth. What a view for the Astronauts - photo above.

Photo right - VSS Unity returns to Earth.





NEW FROM THE Barn is a regular feature about the happenings at the largest (and greatest) fly-in community in the world - Spruce Creek Fly-in. Situated on the Space Coast of Florida, just 7 miles south of the famous Speed City of Daytona Beach, Spruce Creek is a very special place. Our North America editor, Steve Wood, has lived there for since 2001, so he should know. We hope you enjoy this regular feature about a very special aviation community.

Spruce Creek Airport Information - Courtesy of the Spruce Creek POA Website - www.scpoa.com

The Spruce Creek Airport is the heart of the Spruce Creek Fly-In Community. The Airport is a private airport owned and operated by the Spruce Creek Property Owners Association (SCPOA). The Spruce Creek Airport Authority Committee through the SCPOA Board of Directors has the authority and the responsibility to oversee the operation of the Spruce Creek Airport. The SCPOA employs a full time, 24-7 security staff. The Airport runways, taxiways and aircraft parking areas are regularly patrolled and are under continuous video surveillance by the Security staff 24 hour a day.

All flying activities at the Spruce Creek Airport are regulated by the FAA and by the recommended procedures published in the Aeronautical Information Manual (AIM). In addition, a limited number of local rules and procedures have been established to promote a safe and enjoyable airport. All resident, tenants and invitees are encouraged to cooperate and abide by these procedures.

SPRUCE CREEK AIRCRAFT ARRIVAL & DEPARTURE PACKAGE - The airport management provides information to assist all pilots operating in and out of the Spruce Creek Air, viewed or printed with Adobe Reader. [Download PDF](#)

AIRPORT SAFETY VIDEO – The airport management recommends that all Spruce Creek Fly-In residents and airport users view this very good airport safety video. Click [Here](#) Airport Info Quick List.

TEL 386/760-5884 or Airport Manager cell see below.

FAX 386/761-7808 AFTER 1700 386/756-6125 (Security)

VORTAC OMN 112.6 MHz 165°R/13.9 DME

VORTAC ORL 112.2 MHz 020°R/35.6 DME

FSS St. Petersburg 122.2 MHz

APCH CNTRL Daytona Beach ... 125.35 MHz (South) 125.8 MHz (North)

INSTR APCH (Rwy 06) GPS (Private, Residence Only)

Runways: 06 / 24 - 4000 ft x 150 ft

CTAF..... 122.975 MHz (pilot actuated lights 3-5-7 clicks)

AWOS..... 121.725 MHz

FUEL 100LL & JET A (self serve and truck delivery)

FUEL 386 257-7791 (on field) or 129.925 MHz (forward request to Spruce Creek)

Airport Manager - Joe Friend: ... 386 872-1430



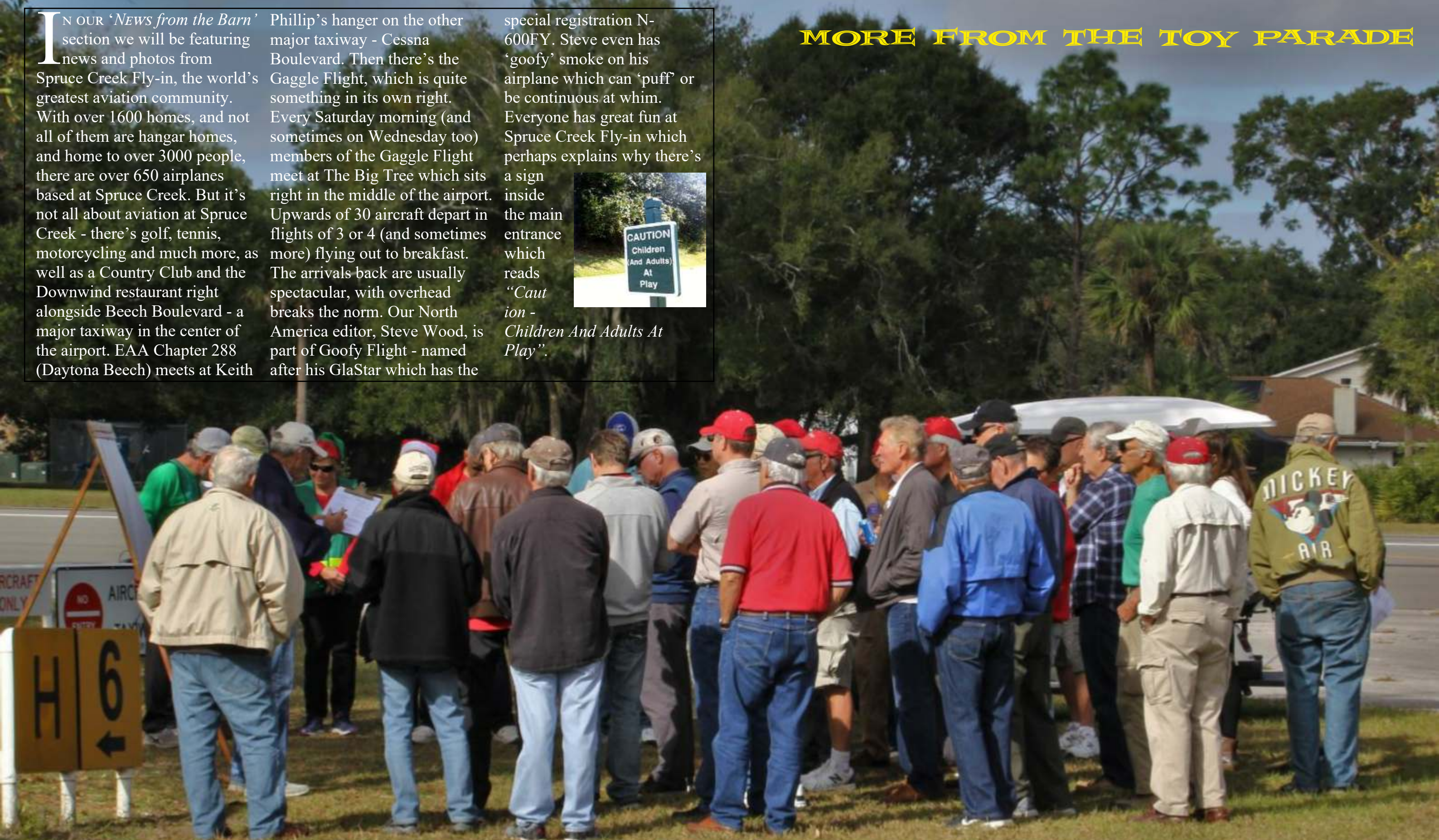
IN OUR 'News from the Barn' section we will be featuring news and photos from Spruce Creek Fly-in, the world's greatest aviation community. With over 1600 homes, and not all of them are hangar homes, and home to over 3000 people, there are over 650 airplanes based at Spruce Creek. But it's not all about aviation at Spruce Creek - there's golf, tennis, motorcycling and much more, as well as a Country Club and the Downwind restaurant right alongside Beech Boulevard - a major taxiway in the center of the airport. EAA Chapter 288 (Daytona Beech) meets at Keith

Phillip's hanger on the other major taxiway - Cessna Boulevard. Then there's the Gaggle Flight, which is quite something in its own right. Every Saturday morning (and sometimes on Wednesday too) members of the Gaggle Flight meet at The Big Tree which sits right in the middle of the airport. Upwards of 30 aircraft depart in flights of 3 or 4 (and sometimes more) flying out to breakfast. The arrivals back are usually spectacular, with overhead breaks the norm. Our North America editor, Steve Wood, is part of Goofy Flight - named after his GlaStar which has the

special registration N-600FY. Steve even has 'goofy' smoke on his airplane which can 'puff' or be continuous at whim. Everyone has great fun at Spruce Creek Fly-in which perhaps explains why there's a sign inside the main entrance which reads "Caution - Children And Adults At Play".



MORE FROM THE TOY PARADE

























WINGS OVER CAMARILLO

AIRSHOW

2018



Photos for this Feature:

Jim (Flybum) Pratt: Pages 55 through 70

Tim Sowell: Pages 70 through 86

Wings Over Camarillo 2018

The Wings Over Camarillo Airshow was held on August 18-19, 2018. Once again, it was an air show and car show, enough to keep everyone interested. Over the past 8 years, the Camarillo Wings Association has given over \$321,340 to local non-profits (before counting this years donation). CWA supports the nation’s youth with aviation-related programs, educational scholarships, and endowments associated with higher education. In honor of local firefighters, limited edition patches were available at Wings Over Camarillo this year. All net proceeds went to the Ventura County Fire Department Widows, Orphans & Assistance Fund, a nonprofit 501(c)(3) charity dedicated to helping the families of firefighters and Department employees facing serious crisis, such as injury or death in the line of duty.

PERFORMERS
VICKY BENZING

VICKY BENZING was born and raised in California. She is an accomplished pilot, skydiver, aerobatic competitor, and Reno racer. With over 6000 hours of flight time and over 1100 parachute jumps, Vicky has a passion for everything airborne. In 2006 she won first place in the Intermediate Category in both the

Northwest and Southwest Regional Championships. After moving up to the Advanced Category she won third place in the 2008 and 2009 Northwest Regional Championships and placed in the top 10 finishers at the US National Aerobatic Championships in 2008. She now focuses on air show performances where she continues to thrill and inspire audiences up and down the West Coast. In 2010, Vicky added to her list of aviation accomplishments and began racing in the National Championship Air Races, held each September in Reno Nevada. Competing in the Sport Class she won her very first race ever and was awarded the honor of being chosen the 2010 “Rookie of the Year” by her fellow Sport Class racers. Last year, Vicky qualified to race an L-39 Albatross in the Jet Class and in September, she was named “Rookie of the Year” for the Jet Class, finishing in the gold at 425.547 mph on the course. Vicki is a favorite of west coast airshow fans and is found to be very approachable and friendly. JOHN COLLVER
Legendary Pilot John Collver demonstrated his aerobatic skills in his SNJ “War Dog.” John Collver’s aviation career spans more than three decades and over 14,000 hours of flight time in over 50 types of aircraft. His career includes time in the Goodyear Blimp, flying for television, as well as teaching and

competing in the aerobatic arena. In addition, John formally flew for the Northrop/Grumman corporation, supporting the U.S. Military for over a decade. His SNJ (T-6) is one of the most photogenic aircraft at the airshows and his performance is incredibly exciting. JUDY PHELPS
Judy Phelps, Master Certified Flight Instructor-Aerobatic, CFI – Instrument, specializing in Tailwheel, Spins, Emergency Maneuver Training and Aerobatics. Judy was selected as the 2011 National Flight Instructor of the Year, the 2010 Western Pacific Region FAA Flight Instructor of the year, the 2008 Professional Woman Pilot of the Year by the Southwest Section of the Ninety-Nines International Organization of Women Pilots, and the 2006 Woman Pilot of the Year by the Ventura County Chapter of the Ninety-Nines. She is a charter member of the Society of Aviation and Flight Educators (SAFE). Judy’s career in aviation started in 1994 when she met and married Clay Phelps, the CP of CP Aviation. In 2003 she became a Certified Flight Instructor (CFI) and has logged over 7,000 hours. SAMMY MASON
Sammy Mason is the youngest performer at Wings Over Camarillo. and a local from Santa Paula Airport. With generations of family in aviation, at 23 years old he’s already entering into his 7th

year flying airshows. Sammy was the youngest member of the USA Advanced Aerobatic Team in 2013, West Coast Advanced Champion in 2014, and had the honor of performing at EAA Airventure in 2015 and 2016. He flies a red modified Pitts S-1. JERRY CONLEY IN THE VAMPIRE
Jerry’s flying career started at eight years old when he got a kids book titled “Jerry the Jet” and the rest is history. Having 35 years experience, Jerry’s flying experience includes aircraft such as Beecraft Bonanza, Cessna 172, Citabria, Super Decathalon, SAI Marchetti, Bell Helicopters, HA-200 Casa Jet, Dehavilland Vampire, Dehavilland DH-112 Swiss Venom, L-39, and AVL-29. Jerry has performed at Airshows across the country fly high performance jet aircraft for 13 years. The de Havilland Vampire is a British jet fighter developed and manufactured by the de Havilland Aircraft Company. It had the distinction of being the second jet fighter, following after the Gloster Meteor, to be operated by the RAF and the first to be powered by a single jet engine. AIRCRAFT PERFORMANCES
§ P-51 (Man of War, Miss Kandy and Red Tail)
§ Bearcat
§ Hellcat
§ Japanese Zero

§ P-38
§ P-47
§ P-63
§ B-25
§ PB-J
§ PT-22
§ F-18
§ BT-19
§ Northrop N-9M Flying Wing
§ Vampire
§ Spitfire
§ L-29
§ C53 Skytrooper – Built in 1942-1943, played a very vital role in the D-day invasion of Normandy. Dropped 10 Re-enactor WW-II Parachutists using the Static Line just as done on 6 June 1944.
§ West Coast Ravens – Experimental RV Aircraft doing formation maneuvers similar to Blue Angeles.
§ Condors – AT-6 and SN-J – WWII advanced trainers; Fly maneuvers similar to what advanced training that was required for combat
§ T-34 Mentors – Post WW-II Navy and USAF basic trainer.
§ Navions – Always a crowd pleaser with their formation flying.
§ Ventura County Sheriff’s Organization Air Unit demonstrated their firefighting and water drop capability in their UH-1.

§ Ventura County Sheriff’s Organization UAS Unit demonstrated the capability to video track automobiles during the Classic Car Parade.
§ Lancairs, Glasairs, Van’s RVs, Dragon Fly, J-3 Cub – Experimental airplanes are home-built and many of these flying are built in Ventura County. Military Displays
The military was well represented with an F-18 Super Hornet, C-130, Hawkeye AWACS Plane, C-17, Cobra and Huey helicopters, and an A-10 Warthog. Ventura County had a modified Huey used for fire suppression which demonstrated its capabilities. They also had fire trucks on display along with the crews. Car Show
There were over 70 mostly antique cars on display and they were proudly paraded up and down the flight line at the appropriate time. There were some real beauties going all of the way back to the early 1900s. Conclusion
What a great air show. Well organized, things went off like clockwork, the traffic flow in and out of the airshow was smooth. Going back next year for sure. Jim (Flybum) Pratt . . .











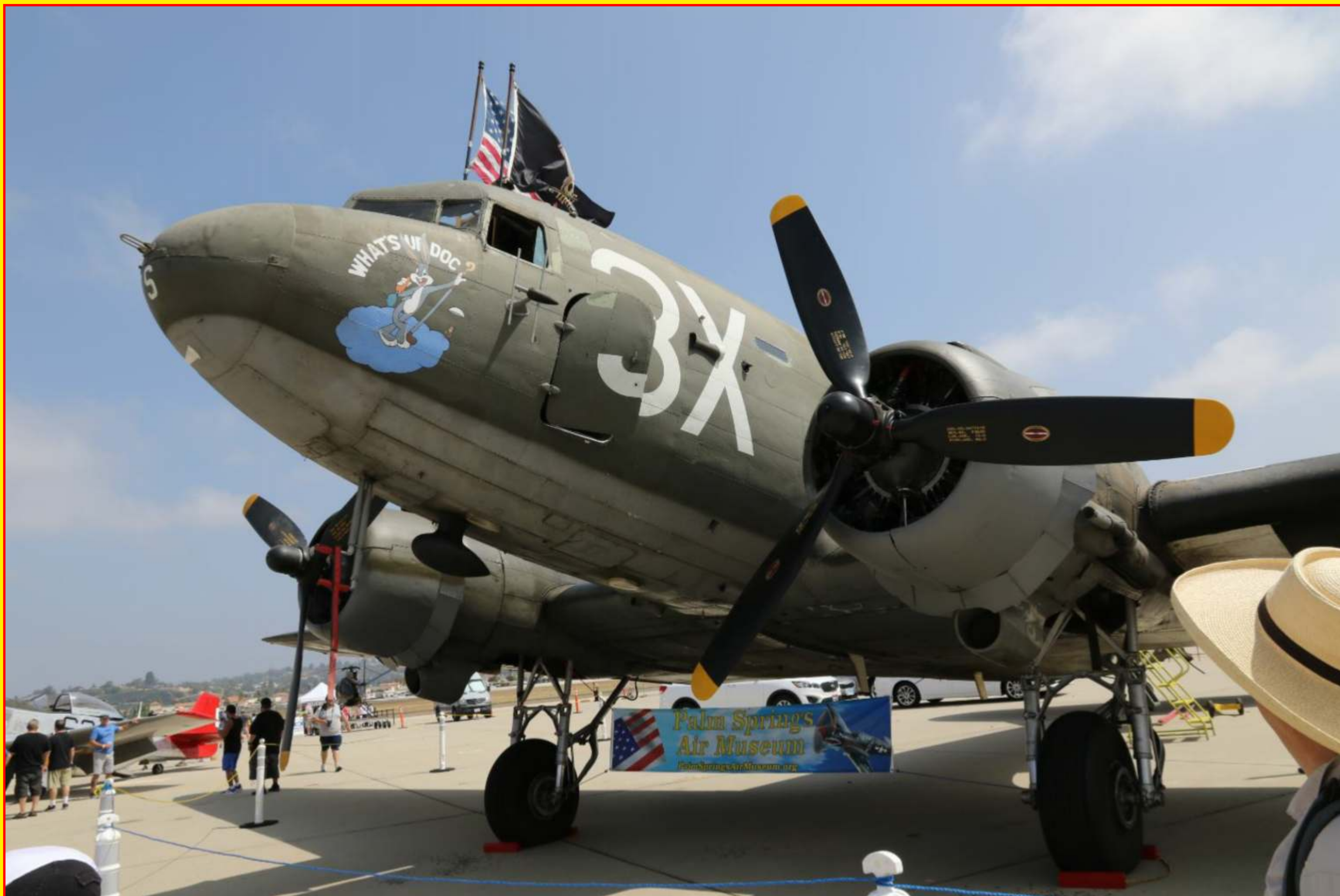


















































INTRODUCING THE NEW RANGE ROVER EVOQUE

London, UK, 22 November 2018 –

Land Rover's highly-anticipated luxury compact SUV, the New Range Rover Evoque, has been revealed in London's creative East End with a high-energy display which saw a number of vehicles driving across digital skylines around the globe.

Gerry McGovern, Land Rover Chief Design Officer, said: "When Range Rover Evoque made its debut back in 2010, it transformed the world of compact SUVs and the new model is set to continue that remarkable journey. This characterful vehicle combines refinement and fun to create that all important emotional

reaction that will turn heads and make people smile."

Having pioneered the luxury compact SUV market, with global sales of over 772,096 and more than 217 international awards, the new Range Rover Evoque is a sophisticated evolution of the original. Combining unrivalled Range Rover heritage with cutting-edge technology – designed, engineered and manufactured in Britain – it meets the needs of today's customers. Tech firsts include 'see through bonnet' technology and a rear-view mirror that turns into an HD screen displaying a camera feed of what's behind the vehicle.

Nick Rogers, Executive Director, Product Engineering, Jaguar Land Rover, said: "Underneath the skin is an engineering and technical

revolution. The architecture is all-new to accommodate both plug-in and mild hybrid systems, with only the door hinges remaining unchanged on the body. The new chassis makes the most of the stiffer body, ensuring the characteristic ride comfort and refinement of a Range Rover.

"Evoque is now smarter than ever. The software that sits behind our infotainment system has been refined to provide a more intuitive customer experience. On top of that, we've added Apple CarPlay and Android Auto for seamless smartphone integration."

Land Rover also collaborated with a number of fashion and technology brands to bring the design, innovation and sustainability characteristics of the New Range Rover Evoque to life.



The all-electric Jaguar I-PACE has achieved a five-star Euro NCAP safety rating, confirming it as one of the safest vehicles on the road

5 December 2018

- **Jaguar's all-electric I-PACE earns five-star Euro NCAP safety rating**
- **Five-seat performance SUV achieves high scores in all main safety categories**
- **All three members of Jaguar's PACE SUV family have the maximum five-star Euro NCAP rating**
- **I-PACE is tenth consecutive vehicle produced by Jaguar Land Rover to receive five stars**
- **Lightweight aluminium body and integrated battery pack deliver exceptional structural stiffness for maximum occupant protection**

6 December 2018, Whitley, UK:

The all-electric Jaguar I-PACE has achieved a five-star Euro NCAP safety rating, confirming it as one of the safest vehicles on the road.

Jaguar's first electric performance SUV scored 91% for adult occupant protection, 81% for child occupant protection and

81% for safety assist. I-PACE scored maximum points for both the side barrier impact and the more severe side pole test, with good protection of all critical body areas.

This latest result means all three members of Jaguar's PACE SUV family, E-PACE, F-PACE and I-PACE, have the maximum five-star Euro NCAP rating, demonstrating Jaguar's commitment to engineering some of the safest family cars. I-PACE is the tenth consecutive model from Britain's biggest vehicle manufacturer to receive five stars.

Simon Black, Senior Project Leader, Body Engineering Jaguar Land Rover said: "The Jaguar I-PACE has already received awards for its design, performance and handling. This latest award from Euro NCAP confirms the I-PACE's exceptional safety standards. The SUV has been expertly engineered with a lightweight aluminium body structure and integrated battery pack to provide outstanding crash protection for occupants. Safety is our biggest priority and it is fantastic to see the Euro NCAP results reflect this."

The I-PACE's lightweight

aluminium body structure delivers inherently high levels of stiffness, and when combined with the integral battery pack – protected by a structural aluminium frame – delivers the highest torsional rigidity of any Jaguar yet, at 36kNm per degree.

Highlights of the body design include industry-first use of aluminium forgings, and Jaguar-first applications of post-form heat treatment to increase the strength of the aluminium alloys used in crash-critical areas.

I-PACE, also features advanced safety technologies to protect road users and pedestrians. Technologies include a deployable bonnet and Autonomous Emergency Braking with Pedestrian and Cyclist Detection. Jaguar also designed a unique Audible Vehicle Alert System (AVAS) for its first electric vehicle that warns road users when the vehicle is approaching. The sound can be heard at speeds up to 20km/h and exceeds the 56dB(A) minimum required by forthcoming European legislation. The system was tested in conjunction with members of Guide Dogs for the Blind, the UK's leading charity for people affected by sight loss.



In addition to safety technologies, the performance SUV offers a full suite of advanced driver assistance systems including Adaptive Cruise Control with Steering Assist, Blind Spot Assist, and 360° Parking Aid.

ROLLS-ROYCE CULLINAN NAMED 'PRESTIGIOUS LUXURY SUV OF THE YEAR' AT ARABWHEELS AWARDS CEREMONY

12.12.2018

The Rolls-Royce Cullinan was named 'Prestigious Luxury SUV of the Year' at the 2018 ArabWheels Awards ceremony.

The annual event celebrates the latest in automotive design, technology, performance, and luxury. Held at Dubai's Meydan Hotel on 14th November 2018, the glamorous awards show featured vehicles by some of the most influential, historic and best-loved carmakers.

The world's first super-luxury SUV and the pinnacle of Rolls-Royce's

'Effortless, Everywhere' driving and lifestyle ethos, Cullinan is an uncompromised, thoroughly luxurious all-terrain vehicle that is completely unlike anything the world has ever seen.

Cullinan was the outright winner in its category, impressing the judges with its innovative technology, unparalleled luxury and incredible, industry-leading power and performance. Rami Joudi, Regional PR and Communications Manager at Rolls-Royce Motor Cars Middle East, Africa and India, said: "This is the first award for Rolls-Royce Cullinan and I believe there will be many more to come.

"I feel very privileged to receive the 'Prestigious Luxury SUV of the Year' award on behalf of all my colleagues at the Home of Rolls-Royce Motor Cars in Goodwood and Rolls-Royce Motor Cars Middle East and Africa regional office.

"This award goes to the 500 engineers and highly-skilled people

who worked on Cullinan, the Rolls-Royce of SUVs."

Issam Eid, Editor-in-Chief, ArabWheels magazine, said: "ArabWheels Awards is much more than just handing over a trophy at a glamorous event every November. It's a long assignment that is intended to inform potential car buyers about the vehicles that should appear on their shortlists. Notably, it also gives consumers a 50 percent say in the results via our online voting process. Another 50 percent is for our judging panel whose jurors ensure the integrity and credibility of the awards but also serve as an important resource for the industry with a focus on excellence and innovation on a regional scale. The main goal was to achieve a balance between consumers and expert motoring journalists.

Cullinan represents a milestone in the development of the world's most luxurious automotive marque and aligns Rolls-Royce with a new market of discerning automobile customers in the UAE and the region who demand refinement, superb comfort and off-road capability. Quintessentially Rolls-Royce, Cullinan's 'Architecture of Luxury' is based around superlative engineering that creates an environment of immersive luxury with driver and passengers experiencing power and performance through a smooth and silent ride that can tackle any terrain.

Photo left: The first 5 Rolls Royce Cullinans released to the UK market.



ALL-NEW BENTLEY CONTINENTAL GT CONVERTIBLE: THE PINNACLE OPEN-TOP GRAND TOURER

(Crewe, 26 November 2018)

Bentley is introducing the all-new Continental GT Convertible. Designed, engineered and handcrafted in Britain – and representing all Bentley knows about creating the world's most stylish and elegant Grand Tourers – the GT Convertible is the very essence of the luxury brand.

Adrian Hallmark, Chairman and Chief Executive, Bentley Motors, said: "Elegant understatement that forces you to look; engineering excellence you'll take for granted – the extraordinary breadth of capabilities offered by the new Continental GT Convertible is unique and can only be offered by our noble British brand.

We have been building luxury Grand Tourers since the company was founded in 1919 and, as we approach our centenary year, the Continental GT Convertible joins a highly acclaimed range – arguably the strongest and most technologically advanced portfolio of products the world has ever seen in one luxury brand."

Elegant and sculptural exterior styling harmonises perfectly with an

exquisite handcrafted cabin, featuring the highest quality leathers and sustainably sourced veneers.

The tailored convertible roof can be deployed or stowed in just 19 seconds, with the car travelling at speeds of up to 30 mph (50 km/h). This transforms the Continental GT Convertible from a luxurious coupe into an open-top Grand Tourer at the touch of a button. Seven different fabric hood colours are available, including an authentic tweed finish for the first time.

A newly designed neckwarmer (which is both warmer and quieter



than in the previous generation model), is seamlessly integrated into the heated Comfort Seats, optimising efficiency and airflow around the electrically adjustable headrests. The styling highlight of the new neckwarmer is a chrome centre vane that stretches the full width of the duct, echoing Bentley's famous 'bullseye' vents. Combined with a heated steering wheel, seat heaters and new heated armrests, these sophisticated comfort features create a luxurious driving experience in all environments.

The all-new Continental GT Convertible heightens the sensory experience of open-air motoring with exhilarating performance. A powerful 6.0-litre Bentley W12 engine is mated to a dual-clutch eight-speed transmission. [WLTP drive cycle: fuel consumption, mpg (l/100km) - Combined 20.2 (14.0). Combined CO₂- 317g/km. NEDC drive cycle equivalent: fuel consumption, mpg (l/100km) – Combined 22.8 (12.4). Combined CO₂ - 284g/km.]

The new powertrain uses the latest engine management technology to produce 635 PS (626 bhp) and 900

Nm (664 lb.ft.) of torque, and accelerate to 100 km/h in 3.8 seconds (0-60 mph in 3.7 seconds), on to a top speed of 333 km/h (207 mph).

The new Continental GT Convertible also showcases major evolutions in Bentley's unique application of technology. An advanced,

fully digital, driver-focused instrument panel and Bentley Rotating Display for the driver are among the suite of innovations. The latter features an impressive 12.3" touchscreen housed in a three-sided unit, which revolves from pure veneer to reveal either a touchscreen or three elegant analogue dials – offering customers the option of a digital detox when desired.

Elegant, sophisticated and refined, the all-new Continental GT Convertible is the pinnacle of open-top luxury Grand Touring.

Porsche Macan S launches with new V6 turbo engine

12.11.18

Porsche has expanded its range of compact SUVs with the addition of the powerful Macan S. The new model from the sports car manufacturer features a new three-litre V6 turbocharged petrol engine with a gasoline particulate filter.

It delivers 260 kW (354 PS; Fuel consumption combined 8.9 l/100 km; CO2emissions combined 204 g/km) and has a maximum torque of 480 Nm, representing an increase of 10 kW (14 PS) and 20 Nm compared with the previous model. When equipped with the optional Sport Chrono Package, the new Macan S accelerates from 0 to 100 km/h in just 5.1 seconds, which is 0.1 seconds quicker than the previous model. The vehicle's top speed is 254 km/h. Its fuel consumption (NEDC-correlated) is 8.9 l/100 km.

The new Macan S enjoys all the product innovations of the latest generation Macan model range. These include the LED lightbar at the rear and the new, fully networked Porsche Communication Management system with a 10.9-inch touchscreen.

New V6 engine with central turbo layout

The Porsche Macan S is now equipped with a newly developed 3.0 liter V6 turbo engine. Using the central turbo layout, the turbocharger is located in the inner V; this results in short exhaust gas paths between the combustion chambers and the turbocharger, to ensure outstanding and immediate responsiveness. The new twin-scroll turbocharger provides high torque at low engine speeds. With twin-scroll technology, the exhaust gas flows are continuously fed to the turbine wheel as separate streams significantly reducing any charge cycle disadvantages. The further-developed combustion chamber geometry with a central injector promotes efficient fuel mixture preparation. In addition to the increase in the power output per litre, from 113 to 118 PS, the emissions have also been reduced.

Newly tuned chassis for enhanced balance

As distinctively sporty as ever, the Macan's chassis features staggered tyres and Porsche Traction Management (PTM) four-wheel drive, and has been overhauled and optimised once again as part of this model's facelift. On the front axle, spring forks made from aluminium replace the previous steel components. The new light alloy design is more rigid and reduces unsprung mass, making the steering on the Macan more precise and improving ride comfort. Newly tuned sway bars also ensure more neutral handling. As before, the Porsche Active Stability Management (PASM) active damper control system, height-adjustable air suspension with optimised rolling pistons and new shock absorber hydraulics and Porsche Torque Vectoring Plus (PTV Plus) are optionally available to improve the model's driving dynamics and handling even further.



SNAKE SERUM: FORD AUCTIONING 2020 MUSTANG SHELBY GT500 VIN 001 TO HELP JDRF CURE KIDS WITH DIABETES

Dec 14, 2018

DEARBORN, Mich. – The Ford Mustang – a storied performance car – is going for an all-new win in January – trying to help researchers cure children with Type 1 Diabetes.

VIN 001 of the highly anticipated 2020 Shelby GT500 projected to make 700-plus horsepower will be auctioned at Barrett-Jackson Collector Car Auction in Scottsdale, Arizona, Jan. 18, 2019, with all proceeds going to help Juvenile Diabetes Research Foundation research a cure for the disease.

“JDRF always needs more muscle to help kids fight diabetes, so we are donating one of our heavyweights – the very first 2020 Shelby GT500,” said Joe Hinrichs, Ford president, Global Operations. “We have supported JDRF for many of its nearly 50 years, so we know there’s no easy cure. That is why we are using our most iconic vehicles to help researchers find cures and help millions of children live better lives until that day arrives.”

Edsel Ford II and Aaron Shelby will rekindle the performance magic their two families have created for decades by helping build excitement

for the car as it rolls across the block. The winning bidder of lot No. 3,008 – selling at no reserve, or whatever top price is tendered at the auction – will become the owner of the coveted first production Mustang Shelby GT500 and can choose from all available colors and options.

The proceeds will add to the more than \$2 million Ford contributes to JDRF annually, a total of \$60 million during 35 years of partnership. Live auction coverage will air on MotorTrend Network.



World-beating pedigree

The 2020 Shelby GT500 draws on Carroll Shelby and Ford Motor Company's many performance collaborations beginning with the Cobra roadster in 1962 that went on to win a world championship. Together, they broke a European stranglehold on Le Mans, winning the most important sports car race in the world with the Ford GT40.

When Ford asked Shelby to turn its new Mustang into a race winner for the 1965 model year, the small-block Ford Shelby GT350 was born.

In 1967, the big-block-powered Ford Shelby GT500 was unveiled. It went on to become a worldwide star.

In 2006, Ford and Shelby announced a new-generation Ford Shelby GT500. The first 2007 model year car available to the public was sold at Barrett-Jackson Scottsdale with Edsel Ford II and Carroll Shelby watching from the block.

“Over the past decade, Ford, Shelby and Barrett-Jackson have given enthusiasts the opportunity to collect some very rare cars,” said Craig Jackson, CEO and chairman, Barrett-Jackson. “In 2015, we sold VIN 001 Ford Shelby GT350 at Barrett-Jackson, giving JDRF a cool million dollars. We look forward to hosting members of the Ford and Shelby families again when they auction VIN 001 of the newest Mustang Shelby GT500 for charity.”

It promises to be a historic moment when the ultimate souvenir from the 2019 Barrett-Jackson Scottsdale auction goes up for grabs, Jackson added.

The 2020 Shelby GT500 will be introduced to the public ahead of the auction of VIN 001, revealed with more specifications at the North American International Auto Show in Detroit Jan. 14. The limited-production car will be available in the United States and Canada in next fall.

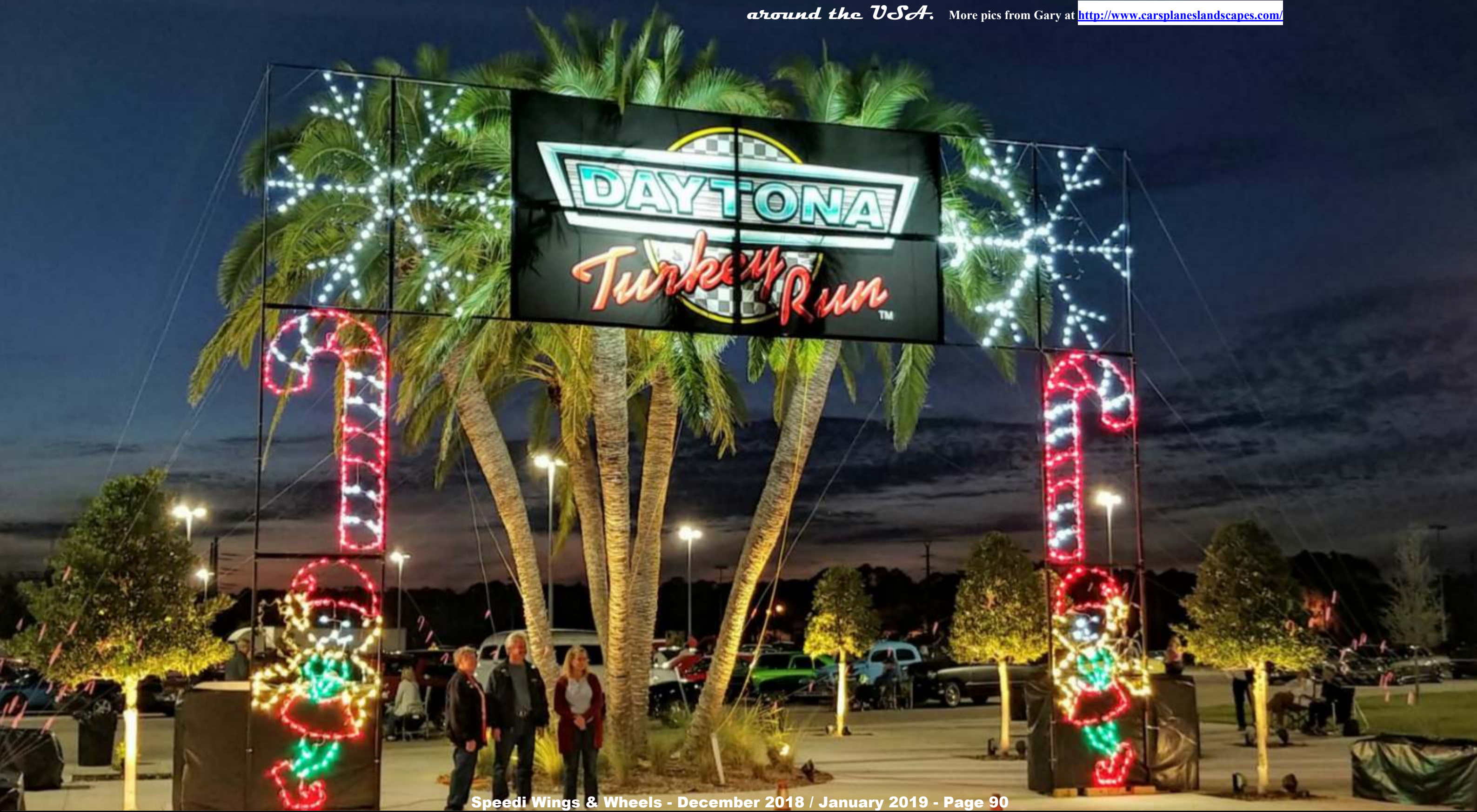
GONE CRUISIN'

Gary's Hot Rods & Cruisers



All photos for this feature: Gary Rosier

Welcome to Gone Cruisin', our regular feature on the cruisin' scene brought to you by Gary Rosier. Primarily from in and around Central Florida, but we'll be including interesting events around the USA. More pics from Gary at <http://www.carsplaneslandscapes.com/>

















































Drag Strip Riot 2018

The 2nd annual Drag Strip Riot from Orlando Speed World - Photos by Gary Rosier



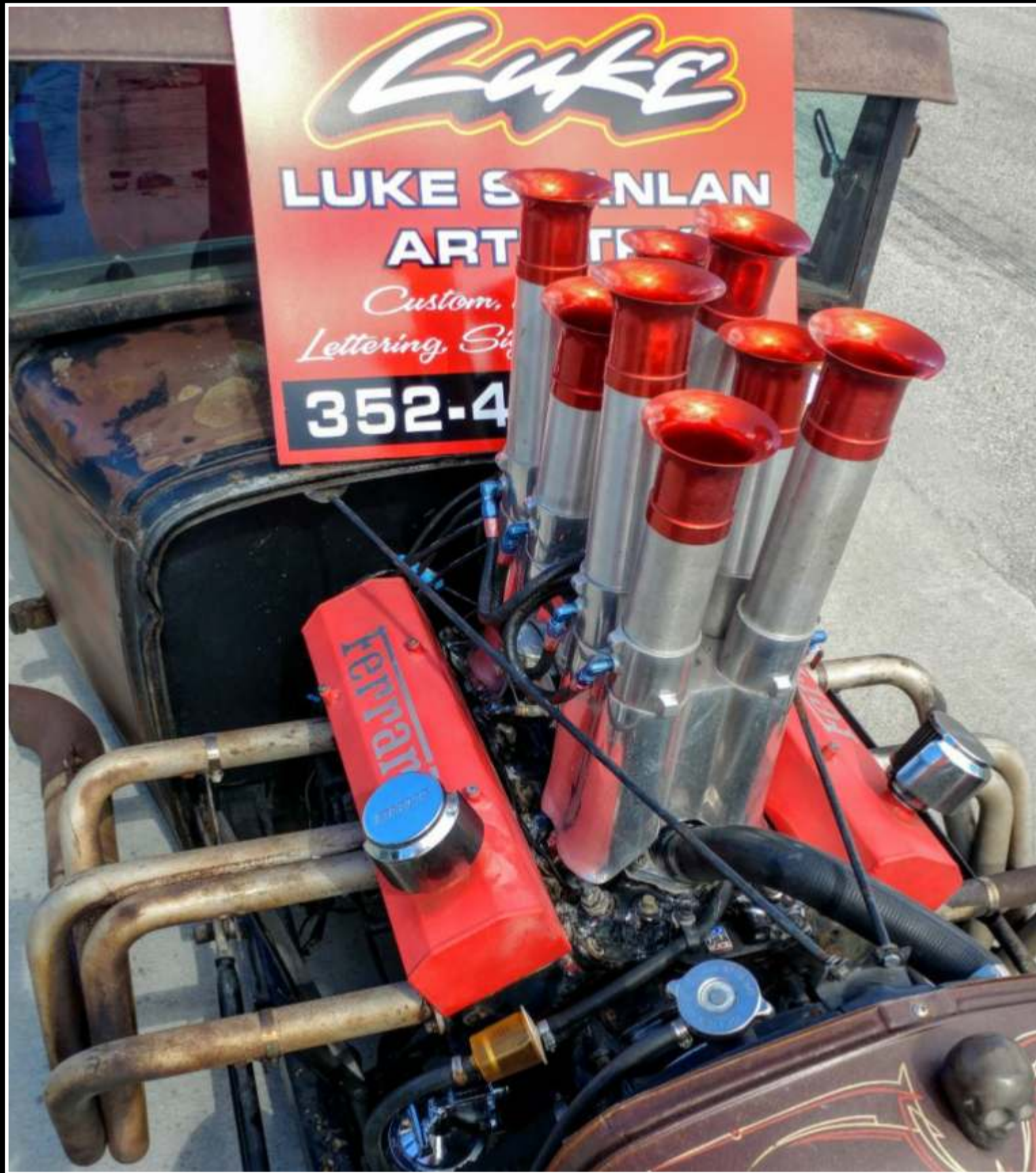




























































































































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