

# Speedi

*Wings & Wheels*

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June / July 2018

Issue No: 38



*LA COUNTY AIR SHOW*



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159 Pages of Action

FREE!  
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Magazine

THIS MONTH:

LA County Air Show

Planes of Fame 2018

and Much More



## NASA Image of the Day

### Blue Waters

This image of the southern Greenland town of Narsaq was taken during an Operation IceBridge flight on Apr. 26, 2018. Operation IceBridge, NASA's longest-running airborne mission to monitor polar ice change, concluded this year's springtime survey of Arctic sea and land ice on May 2. The flights, which began on March 22, covered the western basin of the Arctic Ocean and Greenland's fastest-changing glaciers.

### The Important Details:

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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



Calling all future astronauts: Airbus Foundation launches Discovery Space with lessons in 3D design using Autodesk software.

The Discovery Space website compliments the Foundation's onsite STEM programmes, like the Airbus Foundation Discovery Space at Stevenage, United Kingdom, a site-specific installation where young people can discover aerospace through hands-on experiences.

## Editorial

Welcome to the June / July 2018 issue of *Speedi Wings & Wheels*.

Take a look at our 'Content's page to find out more about what's in this issue. The magazine is published bi-monthly during the last week of February, April, June, August, October and December.

In this issue we are featuring the Planes of Fame Air Show - 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*



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**Speedi**  
Wings & Wheels

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Photo: Gary Rosier

Photo: Gary Rosier

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**74 LA County Air Show:** Another annual air show in sunny California. One again our intrepid duo of Jim (Flybum) Pratt and Time Sowell were there . . .

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## Cathay Pacific becomes second operator of the A350-1000

June 19, 2018 - Toulouse

Increased capacity and highest levels of comfort for the airline's longest flights

Cathay Pacific Airways has become the second airline to operate the A350-1000, the world's newest long-range widebody airliner. The airline took delivery of the aircraft at a special event in Toulouse, France.

The aircraft is the first of 20 A350-1000s ordered by Cathay Pacific and will join the carrier's growing fleet of A350 XWB aircraft, which already includes 22 A350-900s. Both aircraft are complementary and provide for maximum commonality with unmatched operating efficiencies, while offering passengers the highest levels of comfort in all classes. Travellers will benefit from absolute well-being in the cabin, with more personal space, optimised cabin altitude, more fresh air, controlled temperature and humidity, integrated connectivity and the latest-generation in-flight entertainment system.

With its true long-range capability, the A350-1000 will form an important part of Cathay Pacific long-haul operations. The aircraft will be deployed on the airline's new non-stop route from Hong Kong to Washington D.C., representing the longest flight – approximately 17 hours –



performed by any airline out of Hong Kong.

Paul Loo, Cathay Pacific Chief Customer and Commercial Officer, said: "We already have one of the youngest long-haul fleets in the sky, and with the arrival of the A350-1000, our fleet is only going to get younger. The aircraft follows the successful entry of the A350-900 variant which has enabled us to expand our long-haul network at a near unprecedented rate. The A350-1000 has an incredible range, is remarkably fuel efficient and quiet, provides customers with an unsurpassed cabin environment and has extremely attractive operating economics."

Eric Schulz, Airbus Chief Commercial Officer, said: "We are proud to deliver the A350-1000 to our long-standing customer Cathay Pacific. Bringing major advantages in fuel and cost efficiency along with unrivalled passenger comfort, the A350-1000 is the perfect platform for Cathay Pacific to increase capacity on some of its longest routes. The combination of the world's newest widebody and

Cathay Pacific's world famous in-flight service will ensure that the airline can strengthen its position even further as one of the world's leading international carriers."

The A350-1000 is the latest member of Airbus' leading widebody family, showing high level of commonality with the A350-900 with 95 percent common systems part numbers and the same Type Rating. As well as having a longer fuselage to accommodate 40 percent larger premium area (compared to the A350-900), the A350-1000 also features a modified wing trailing edge, new six-wheel main landing gears and more powerful Rolls-Royce Trent XWB-97 engines. Along with the A350-900, the A350-1000 is shaping the future of air travel by offering unprecedented levels of efficiency and unrivalled comfort in its 'Airspace' cabin. With its additional capacity, the A350-1000 is perfectly tailored for some of the busiest long-haul routes. To date, 11 customers from five continents have ordered a total of 168 A350-1000s.



## Boeing Delivers First 737 MAX to Jet Airways - Jet Airways becomes first airline in India to operate the new, more efficient 737 jet

**Delivery is first of 150 737 MAX airplanes for Jet Airways**

SEATTLE, June 19, 2018 /PRNewswire/ -- Boeing [NYSE:

BA] and Jet Airways today celebrated the delivery of the airline's first 737 MAX airplane. Jet Airways will be first Indian carrier to fly the new and improved 737 airplane, which delivers a double-digit improvement in fuel efficiency and improved passenger comfort.

"The new 737 MAX is a critical element to our future growth strategy and we are proud to become the first airline in India to introduce this brand new airplane to our customers," said Naresh Goyal,

Chairman of Jet Airways. "The 737 has been the backbone of our dynamic fleet for many years and we are excited to leverage the superior capabilities of the new 737 MAX. The improved economics and efficiency as well as the passenger pleasing features of the MAX will enable us to strengthen our position as India's premier airline."

This delivery marks the first of 150 737 MAX airplanes the Mumbai-based airline has on order with Boeing, following two separate orders for 75 jets placed in 2015 and earlier this year.

"This milestone delivery adds yet another chapter in our long and successful relationship with Jet Airways," said Dinesh Keskar, senior vice president, Asia Pacific and India Sales, Boeing Commercial Airplanes. "Jet Airways continues to demonstrate their leadership in a highly competitive market and I am confident that these new 737 MAX airplanes will enable the airline to

successfully achieve long-term growth going forward." Jet Airways is India's second-largest airline with a fleet of nearly 120 airplanes serving more than 60 destinations across 15 countries across Asia, Europe, North America and elsewhere. The 737 MAX is the fastest-selling airplane in Boeing history, accumulating more than 4,500 orders from 99 customers worldwide.

The family of airplanes is powered by CFM International LEAP-1B engines, and includes design updates such as Boeing's Advanced Technology winglet that will result in less drag and optimize performance, especially on longer-range missions. Together, these improvements reduce fuel use and CO2 emissions by at least 14 percent compared to today's Next-Generation 737s – and by 20 percent more than the single-aisle airplanes they replace.





**Sustaining F-35 Electronic Warfare Systems**

May 22, 2018

**BAE Systems received a contract from Lockheed Martin to ensure the readiness of critical EW systems on the F-35.**

BAE Systems has received a contract from Lockheed Martin to ensure the readiness of critical electronic warfare (EW) systems on the F-35 Lightning II fighter aircraft. Under the five-year contract, BAE Systems will manage the supply chain and establish the infrastructure necessary to make sure the systems are mission capable and available to warfighters.

“As a leader in EW systems for the world’s most advanced aircraft, we understand how critical readiness is for our customers,” said Betsy Warren, director of F-35 Sustainment at BAE Systems, Inc. “We’ll ensure that the F-35 EW supply chain is in place for Lockheed Martin and the Department of Defense.”

The EW suite for the F-35, called the AN/ASQ-239 system, protects the aircraft with advanced technology for critical missions. The system’s advanced avionics and sensors provide a real-time, 360-degree view of the battlespace, helping to maximize detection ranges and provide the pilot with options to evade, engage, counter, or jam threats.

Under the contract, BAE Systems will maintain regional warehouses

with on-hand inventories of critical EW components to improve fill rates and reduce wait times. The company will also establish various metrics that will be used to further strengthen confidence in the supply chain.

This F-35 sustainability work is based on performance-based logistics (PBL), a cost-effective, outcome-based support strategy that focuses on system readiness. BAE Systems has more than a decade of PBL experience with the U.S. Air Force, U.S. Navy, and multiple public-private partnerships that support U.S. military systems, as well as more than five years of experience with F-35 sustainment and international maintenance support.



**Delta’s first A350 takes off for the first time**

May 24, 2017

Delta’s first Airbus A350-900 — yet to be painted in Delta’s signature livery — took to the skies early Tuesday morning in Toulouse, France, where the aircraft is assembled, kicking off two months of flight testing, and a fresh paint job, prior to delivery to the airline mid-summer.

The lightweight, composite widebody aircraft will be the first of the state-of-the-art jets to be delivered to a U.S. airline and is expected to begin service in October on primarily transpacific routes. The aircraft began taking shape

back in January as it entered Airbus’ final assembly facility.

The A350 will be Delta’s flagship international aircraft and the first to feature the airline’s all-new Delta One Suite, the world’s first business class cabin to feature a sliding door, as well as Delta Premium Select, a new premium economy experience.

A350 test flight 2In all, the A350 will feature 32 seats in the Delta One cabin, 48 seats in Delta Premium Select and 226 seats in the Main Cabin. Customers in all cabins of service will have access to high-speed 2Ku Wi-Fi internet access offering consistent, uninterrupted, gate-to-gate coverage anywhere in the world with speeds that allow customers the ability to stream video and use work-related networks such as VPN. A modern cabin environment will also be outfitted on Delta’s A350 with high capacity overhead bins, full spectrum LED ambient lighting and in-seat in-flight entertainment at every seat.

The fuel-efficient jets will replace retiring widebody aircraft. Delta will take delivery of five A350s in 2017 with more coming in 2018.





Photos by:

Pages 7 through 30- Jim (Flybum) Pratt

Pages 31 through 53 - Tim Sowell



## Planes of Fame Airshow Chino, CA May 5-6, 2018

Sometimes I feel like the luckiest guy on the planet to live so close to so many good air shows. The Planes of Fame Airshow is the best when it comes to seeing a wide variety of military aircraft from World War II up through current times.

demonstration of the Reno Air Races by Voodoo and Strega, F7F Aerobatics flown by Stew Dawson, Golden Age Classics Pea Shooter, World War II Airborne Demonstration Team, the great Rob Harrison flying Tumbling Bear, World War II European Theater Flight Demo (over 40 aircraft), Korean War Re-enacted (Mig vs F86), Greg Colyer T-33, Pacific War demonstration, and the Heritage Flight.

The most incredible thing about this show is the non-stop action that begins early and goes on all day long.

Doolittle's copilot, B-25, Doolittle Raiders), Muriel Engelman (US Army Nurse Battle of the Bulge), Ed Feitchinger (C-47 pilot), Bob Friend (Tuskegee Airman - P-51), Luis Fuentes (Vietnam Huey pilot), Jack Gutman (Medic, D Day and Okinawa), Margaret Kerry (original model for Disney's Tinkerbell), Sarge Lintecum (101st Airborne), Ed Lopez (P-47 pilot), William Lucas (WWII fighter pilot), Heather Penney (F-16 pilot, intercept of UAL#93 on 9/11), Ed Doc Pepping (Band of Brothers Medic-101st Airborne), John Quier (USS Dobbins - Pearl Harbor), Leo Spector (P-38 pilot), Vince Speranza (101st Airborne

ordered to bring down Flight 93 on 9/11. With no ammunition, her and her wingman were to ram the airliner, but it crashed before they intercepted it, thanks to some heroic passengers that stopped the terrorists, sacrificing the plane.

Jim (Flybum) Pratt



T

The Chino Museum is like a large aircraft factory where restorations are ongoing and almost all aircraft are restored to flying condition. The museum has monthly presentations where certain warbirds are featured and actually flown. This all culminates in the annual air show where most of the birds are taken out to the flight line for the public to admire and then are flown in the airshow.

The museum has hundreds of volunteers, many who are former military and aerospace workers who have the expertise to restore these birds.

The acts that performed in this years show included the A-10 Thunderbolt II Demo Team, Sean D Tucker in his highly modified Pitts representing Team Oracle, the Northrop N9MB Flying Wing, a

Fielding a dozen P-51 Mustangs, four P-38 Lightnings, a couple of P-47 Thunderbolts, Corsairs, B-25 Bomber, a British Spitfire, several P-40s, a Japanese Zero, TBM, an AD-1 Sky Raider, Hellcat, Wildcat, an F86, a Mig 15, a T-33, a TBM Avenger, a Kate Torpedo Plane, a Dauntless Dive bomber, an A-10 Warthog, a C-47 can take all day as the planes wow the crowd with multiple passes. The Heritage Flight consisted of the P-47 Thunderbolt, the A-10 Thunderbolt (Warthog), and a P-38. What a sight that was!

A special panel discussion with some of the honored veterans was held during the show. They were as follows: Lauren Bruner (USS Arizona Survivor), George Ciampa (US Army Graves Registration), Dick Cole (Gen. Jimmy

Battle of the Bulge), Bill Steinkirchner (Iraq Veteran), Ted Tanner/Jim Baker (P-40/A-20/ C-119 pilots), Ed Teissen (B-17 gunner).

I didn't get to hear all of them but did have the honor of meeting Dick Cole who is the last surviving Doolittle Raider. He is 102 years old and still very alert. I bought his book and read it after the show. He spent a good part of the war flying the Hump from India into China in a C-47, keeping China in the war with the supplies that they delivered.

I also got to hear Heather Penney and Vince Speranza talk about their experiences. Heather Penney was





























































































































































# SPEEDI'S BLOG

**W**ELCOME TO  
SPEEDI'S Blog.

Formation flying is something which I do regularly. I enjoy the challenge of the precision flying which it involves. But this type of flying is not for everyone.

In the USA, the FAA requires any pilot wishing to fly in a non-aerobatic formation in waived airspace (in other words at an air show or other event where normal flight is restricted) to hold a FAST or FFI formation certification.

FAST stands for Formation and Safety Team. Essentially formed for warbird pilots to safely hone their formation skills. The 'bible' of FAST formation training is the T-34 formation flight manual.

This manual has been written for T-34 pilots, and the T-34 is a tandem two seat propeller driven training aircraft

used by the US Air Force and Navy to train their pilots prior to the advent of jet training aircraft.

The modern day civilian equivalent is the tandem seat RV-8.

However, formation flying is undertaken in a variety of aircraft, from formation specific aircraft like the T-34 to high wing Cessna where a group of 100 or more fly in formation to EAA AirVenture, the world's largest aviation event.

It is an FAA requirement that each and every formation flight shall be pre-briefed. It is generally accepted that each flight shall also have a de-brief. Of course the military spend a huge amount of time on the brief and de-brief of flights.

Myself and a number of other pilots at Spruce Creek Fly-in have spent many hours mentoring aspiring formation pilots. All this is in the interest of safety.

Each and every airplane type has a number of blind spots - that is where the pilot's vision is blocked by the aircraft's structure. Some have more blind spots than other.

A classic example is the Stearman bi-plane. This has both a high and a low wing with many structural elements in between.



The photo above is taken from the Stearman Flight website where it is notated as being a 9-ship flight.

My reason for mentioning this is that there are some that say only tandem seat low wing aircraft should be flown in formation. Particularly those who think themselves as an elite, due either to the >>

>> type of plane they fly or their flying background.

Stearman Flight is a signatory member of FAST and of course the type of aircraft they fly is poles apart from a tandem seat low wing ex-military training aircraft. It was a training aircraft in the 1930's before improvements in structural engineering made safe aerobatic flight in a monoplane possible.

I lead Goofy Flight which is usually comprised of different aircraft types.



The photo above shows me leading a high wing Stinson and a low wing Grumman. As part of a flight of 4.

Talking of the numbers of planes in a flight. The military does not normally fly more than a

4-ship flight. This is for tactical reasons and a 4-ship flight has two elements of two planes in each. The idea being that each element can defend each other and equally can assist each other in their airborne fighting mission.

Former military pilots flying suitable aircraft (the T-34 for example) can emulate what they were required to do in their former life. To safely fly high aspect maneuvers in formation is what basic fighter training is all about.

To try this in a high wing aircraft, a side by side low wing plane or a bi-plane is asking for trouble. Why, simply because of the more restricted visibility of these types of aircraft.

This does not mean that formation flight cannot safely take place in these types of plane. But by necessity the types of maneuvers must be restricted to what is in effect 'station keeping'.

Talking of 'station keeping' each time you drive in heavy traffic on a multi-lane highway you are in effect in tight formation. But not in a pre-briefed way and you are in close proximity to a person you have never seen before in your life.

So why am I making these points. Quite simply it is my view that formation flight will always take place in a wide variety of different aircraft.

The fact that it must be pre-briefed to comply with the regulatory requirements is a good thing. But it needs to go way beyond this first stage in the interest of flight safety.

This is something we strive to do at Spruce Creek Fly-in. Each pilot is PIC and responsible for the safety of themselves and other members of their flight.

There should never be a blanket restriction on the type of aircraft which can be flown . . .





**N**EW 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](http://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)

CTAF..... 122.925 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





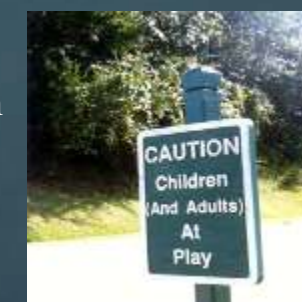
Photos by Gary Rosier

Photo Ship Pilot: Scott Roth

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".



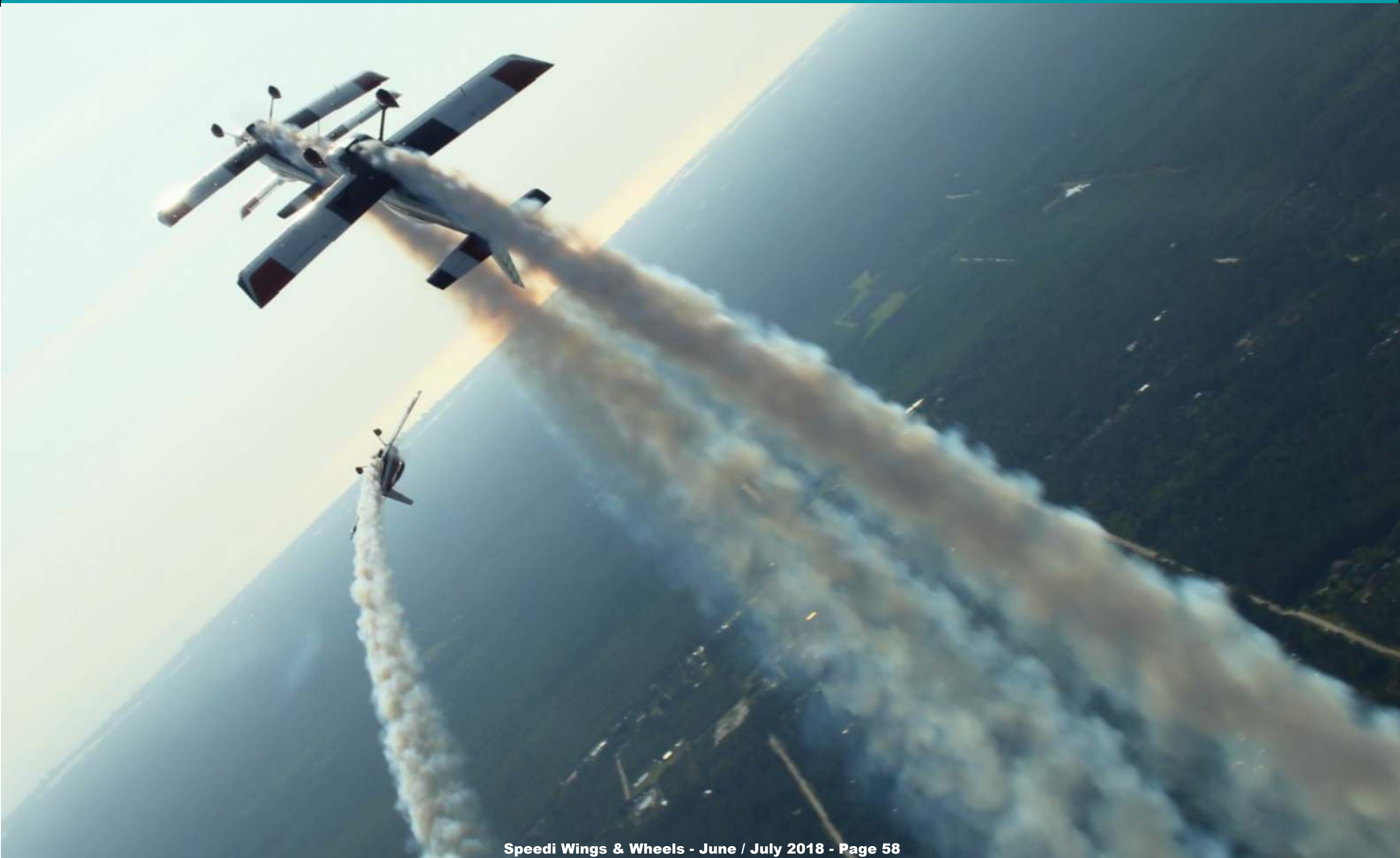
## FEATURING THE SPRUCE CREEK



































































Back row: The Mavericks - Foreground: Photo Ship pilot







**Los Angeles County Airshow 2018  
Fox Field, Lancaster, CA**

The L.A. County Airshow is now in its fourth year. The Blue Angels had top billing for years one and three, and the Thunderbirds on year two. This year, there was no military formation aerobatic team slated which caused some concern among the fans. However, the show went on and, in my opinion, was still well worth attending. The line-up of performers was fantastic and there was never a dull moment. The weather was contentious on Saturday with temperatures as low as 52 degrees with 30 knot winds blowing almost the whole day. The performers deserve a lot of praise for putting on a great show despite the challenges. It was interesting that the crowd was larger than last years despite the fact that the weather was perfect last year. It shows what a die-hard bunch of fans came out from this aerospace community. Here are the performers:

**USAF F-22 RAPTOR DEMO TEAM**

The F-22, a critical component of the Global Strike Task Force, is designed to project air dominance, rapidly and at great distances and defeat threats attempting to deny access to our nation’s Air Force, Army, Navy and Marine Corps. The F-22 cannot be matched by any known or projected fighter aircraft. The maneuvers performed were totally amazing and could easily compete with those performed by any Russian aircraft that I have seen.

**BOEING B-17G FLYING FORTRESS  
SENTIMENTAL JOURNEY**

Sentimental Journey was originally manufactured and delivered to the U.S. Army Air Forces for war service in 1944 where she flew missions in the Pacific Theater. After the war she flew for training, testing and at-sea rescue missions and was eventually sold for surplus and used as a fire bomber. In 1978 the aircraft was purchased by a Commemorative Air Force (CAF) member and donated to the newly formed Arizona unit of the world-famous CAF. It has been fully restored and has appeared at many airshows throughout the country.

**NORTH AMERICAN P-51D MUSTANG  
MAN’O’WAR**

The North American P-51D Mustang, tail number 44-72739, was built in the North American Aircraft factory in Inglewood, California on February 15, 1945 and was shipped to the fighter

pool at Stanstead, England in March of that year. Too late to see combat in WWII, 44-72739 was returned to the US and assigned to the New Jersey National Guard. It is currently based at the Chino Museum of Flight. Nothing like the sound of a Merlin engine in the morning!

**MV-22 Osprey**

The Bell Boeing V-22 Osprey is an American multi-mission, tiltrotor military aircraft with both vertical takeoff and landing, and short takeoff and landing capabilities. It is designed to combine the functionality of a conventional helicopter with the long-range, high-speed cruise performance and range of a turboprop aircraft. It is employed by the U.S. Marines for use in transport and medi-vac operations and has served in the mid-east in Afghanistan and Iraq. The Osprey is an awesome bird that flies at twice the speed of many helicopters and can go to and from the battle space in a hurry. It is an amazing looking aircraft.

**SUPERMARINE SPITFIRE Mk XIV**

CAF SOUTHERN CALIFORNIA WING |  
WARBIRDS  
Commemorative Air Force Southern California’s Wing – Camarillo will perform in the Supermarine Spitfire Mk XIV. The Spitfire's max speed is 439 mph. Only 957 production Mk XIVs were built. It was the first Spitfire in large-scale production with the V-12 Rolls Royce Griffon 65 engine, and entered service in 1944. The Mk XIV was the most successful of all the variants at destroying V-1 flying bombs, accounting for 300 kills. In October 1944 a Mk XIV had the distinction of being the first to destroy a jet-powered Messerschmitt Me 262. Now owned by the CAF, this Spitfire Mk XIV is at the CAF, Southern California Wing’s Hangar at Camarillo Airport.

**GRUMMAN F8F BEARCAT**

The Southern California Wing acquired the “Bearcat” in 1991 when Lefty Gardner flew the airplane from Chino, California to the Camarillo Airport after the airplane had been sitting idle for about eight years. The Bearcat was originally put into service just after World War II ended. The model has been a top contender at the Reno Air Races for several years (Rare Bear).

**LOCKHEED P-38 LIGHTNING**

The P-38 from the Collings Foundation is a prime example of the thousands that served during

World War II.

**Red Bull TEAM CHAMBLISS**

Kirby has continuously trained to perfect his aerobatic skills and routines, which he was able to display at various air shows. There, he began to establish his continuously growing fan base and earned recognition for his skills with an acceptance onto the U.S. National Aerobatic Team. To date, Kirby has accumulated 13 medals in world competition. By the early 2000’s, Kirby was recognized as one of the top 15 aerobatic pilots in the world and was asked to compete in the very first Red Bull Air Race. He transferred his explosive, aggressive flying style to the racetrack and is now a two-time Red Bull Air Race World Champion. He flies the Extra.

**Red Bull SWOOPERS**

"Swooping" is a skill practiced while under canopy, including a hook turn into a very fast landing. All of our skydivers have high speed canopies, but two of the four will jump canopies 69 sq ft and exceed speeds of 60 mph on landing. The jumper flying a wingsuit will use a larger canopy to provide a little more stability but he/she will still do a swoop landing, just not quite as fast as those jumping the high-speed canopies. At this airshow, they had to contend with 30 knot winds which is a real challenge.

**NASA ER-2 HIGH ALTITUDE AIRBORNE  
SCIENCE AIRCRAFT FLY-OVER**

NASA Lockheed ER-2 High Altitude Science Aircraft performed a fly-over. This aircraft has flown thousands of missions and test flights in support of scientific research. It can operate at altitudes from 20,000 feet to 70,000 feet, which is above 99 percent of the Earth’s atmosphere.

**PLANES OF FAME AIR MUSEUM  
WARBIRDS**

F-86F SABRE, P-38 LIGHTNING, F4U CORSAIR, B-25 MITCHELL, MIG15

Planes of Fame Air Museum will perform fly-overs in the North American F-86F Sabre (top speed of 685 mph), Lockheed P-38J Lightning (top speed of 402 mph), the oldest flying Vought F4U-1 Corsair (top speed of 417 mph) and had six 0.50-cal machine guns and provisions for bombs and rockets and the 1944 North American B-25J Mitchell (top speed of 272) which had eleven

0.50-cal machine guns and 6,000 lbs of bombs will also fly. Don’t miss this impressive collection of WWII aircraft.

**RED BULL AEROBATIC HELICOPTER**

Aaron Fitzgerald performed in the Red Bull Helicopter. Aaron Fitzgerald, known as ‘Fitz’ to his friends and colleagues, was born in Portland, OR, and grew up in Wenatchee, Washington. Wenatchee is home to a USFS Tanker base and Aaron grew up watching airplanes and helicopters overhead as they fought fires in the surrounding mountains. Seeing these aircraft in the skies all summer instilled in him a strong desire to fly.

**JERRY CONLEY WWII BRITISH JET  
FIGHTER - VAMPIRE**

The world’s first single engine jet fighter, the Havilland DH-115 Vampire. Development of the aircraft began during WWII in 1943 as an aircraft suitable for combat that harnessed the new innovation of jet propulsion; it was quickly decided to opt for a single-engine, twin-boom aircraft equipped with the Harlford H.1 turbojet engine, which was later known as the de Havilland Goblin. Jerry Conley performed in the Vampire. Jerry holds a degree B.S. in Mechanical and Aerospace Engineering from the Florida State University, College of Engineering. Jerry is a member of American Society of Mechanical Engineers, the Society of Automotive and Aerospace Engineers, and the Society of Manufacturing Engineers. He served in the US Air Force. He’s been flying airshows for more than 13 years.

**KENT PIETSCH IN JELLY BELLY**

He flies a 90 horsepower, 800-pound Interstate Cadet, with a 37-foot wingspan pulling between -3 to +5 G-forces. Catch Kent after his performance because he always has Jelly Belly’s to hand out!

**CHUCK COLEMAN EXTRA 300**

Chuck Coleman performed in the Extra 300. Chuck is not only an airshow pilot, but a test pilot, flight instructor with over 4500 hours in the Extra 300 series aircraft. He has performed in hundreds of airshows and given 3000+ rides in airshow aircraft. Chuck has been deployed around the world in aircraft such as the Burt Rutan Proteus utilized for scientific research as is currently a test

pilot for ICON Aircraft flight testing the ICON A5 Amphibian.

**JIM PIETZ AEROSPORTS JIM PIETZ  
AEROSPORTS F33C BONANZA**

Jim is from Pierre, South Dakota where his father taught him to fly in the 1970's. He began teaching himself aerobatics in 1992, and has since amassed over 14,000 incident-free hours in over 100 aircraft types! He does incredible things with the Bonanza. Makes me want to own one.

**GREGORY "WIRED" COLYER - ACE  
MAKER AIRSHOWS – T-33**

Gregory “Wired” Colyer, a native of California, took his first flight at the age of seven in Sonoma, CA. Hooked ever since, he earned his pilot’s license at the age of 18 and flew while serving the U.S. Army in the 1980’s. He retired after 27 years as an Air Traffic Controller at Oakland ARTCC. He will be performing in the Lockheed T-33 Shooting Star – Ace Maker, America’s first operational jet fighter and jet trainer.

**BILL STEIN AIRSHOWS**

Bill Stein from Aptos, CA began flying aerobatics when he was still a student pilot and has been flying airshows across the US since 1995. He now performs in his Zivko Edge 540. The Edge has a unique paint that continuously changes color from green to purple, to blue, along with gold, yellow, pink and orange depending on the angle of the light and the perspective of the viewer.

**PATRIOT PARACHUTE TEAM**

The Patriot Parachute Team is five professional parachutists who have served as active duty NAVY SEALS. They have logged more than 14,000 jumps together and over 22,600 jumps combined! They have performed in hundreds of cities around the country at thousands of demonstrations.

**Conclusion:**

As you can see from the line-up, there was plenty to see at this airshow despite the absence of the military formation teams. I was apprehensive about the show, but left, feeling fulfilled as a spectator and a reporter. It was well worth the 200 mile trip from Fresno and I will be back next year.













































































































## JAGUAR HEAVEN AT THE GREEN HELL: HAIL AN F-TYPE SVR AND XJR575 RACE TAXI AT THE NÜRBURGRING

8 MAY 2018

Performance car fans can now hail the ultimate taxi rides around one of the world's most renowned race circuits. The Jaguar Race Taxi experience gives thrill-seekers a full-throttle hot lap in the Jaguar F-TYPE SVR and XJR575, around the famous Nürburgring Nordschleife circuit

- \* Experience the performance of the 575PS V8 supercharged Jaguar F-TYPE SVR and XJR575 on a passenger lap of the iconic Nürburgring Nordschleife
- \* Professional drivers take customers around the world's most famous and most demanding race circuit
- \* Adrenaline-seekers receive a video of their Jaguar lap, capturing their reactions to cornering forces of up to 1.2g

Jaguar Race Taxi passengers will be driven around the world's most demanding circuit by hand-picked professional drivers, encountering cornering forces of up to 1.2g on the most challenging sections. They can also relive the excitement of their experience around the 20.83km, 73-turns Green Hell, with an HD video recording of their lap.



"A ride in the F-TYPE SVR and XJR575 Race Taxi is a thrilling and truly unforgettable experience for any car enthusiast – or anybody who just enjoys going very fast! Our highly experienced professional drivers are veterans of the Nürburgring 24-hour race, making them uniquely qualified to show customers the true potential of these extraordinary supercharged V8 Jaguars."

PHIL TALBOYS

EUROPEAN ENGINEERING OPERATIONS MANAGER, JAGUAR LAND ROVER

The F-TYPE SVR has been developed by Jaguar Land Rover Special Vehicle Operations as a 200mph all-weather supercar and is the pinnacle of the F-TYPE range. Powered by a 5.0-litre supercharged V8 engine with 575PS and 700Nm and benefiting from an enhanced chassis and driveline and active aerodynamics, the all-wheel drive

F-TYPE SVR delivers supercar performance – in all conditions – and can accelerate from 0-100km/h in just 3.7 seconds (0-60mph in 3.5 seconds).

The Jaguar XJR575 is the fastest and most powerful XJ ever made in the iconic luxury saloon's

50-year history. Also powered by a 5.0-litre supercharged V8 developing the same maximum power and torque as the F-TYPE SVR, it can reach 100km/h in just 4.4 seconds (0-60 in 4.2 seconds) before reaching an electronically-limited top speed of 300km/h (186mph) while delivering the luxury, refinement and comfort for which the XJ is renowned.

Passenger laps in the two supercharged Jaguars are available until November. The price is €199 per lap in both the F-TYPE SVR and XJR575

## Lamborghini Polo Storico restores the iconic Miura SVR

Sant'Agata Bolognese/Nakayama (Japan), 21 June 2018 – Lamborghini Polo Storico has completed restoration of one of the most famous Miuras ever built: the Miura SVR. On the occasion of its delivery, the car was also exhibited at Japan's Nakayama Circuit.

As is well-documented, only 763 Lamborghini Miuras were produced, between 1966 and 1972, at the company's plant in Sant'Agata Bolognese, Italy. The number of Miuras built outside of Sant'Agata, however, is much greater, as numerous model car manufacturers have created a scale version of what is one of the most iconic vehicles in automobile history.

Among these was Japan's Kyosho, which produced 1:18 scale models of both the Lamborghini Miura SV and Miura SVR. The Kyosho SVR, in particular, has achieved legendary status among collectors, since it depicts one of the most astonishing Lamborghinis ever built, the Miura SVR: a race car evolution of the fabled Jota developed by Lamborghini test driver Bob Wallace, which was even featured in the Japanese manga "Circuit Wolf".

After Wallace's Jota was lost in an accident, incessant customer demand in the following years led Automobili Lamborghini to build a few Miura SVJ models and - remarkably - a single Miura SVR. The latter was eventually sold in Japan, where it served as the "model" for both the vehicle used in the comic book and the Kyosho toy version. The car is the Miura SVR chassis number #3781, which has been returned to its former splendor by the Polo Storico specialists, and exhibited during an event organized in its honor at Nakayama Circuit in



Japan.

The Miura with chassis number #3781, engine number 2511 and body number 383 was born as an S version painted in trademark Verde Miura with black interior. It was originally delivered to the Lamborauto dealership in Turin, Italy, on 30 November 1968, following its display at the 50th Turin Motor Show.

After changing hands eight times in Italy, the vehicle was bought in 1974 by German Heinz Straber, who took it back to Sant'Agata in order to have it transformed in an SVR - a job that required 18 months of work. In 1976 the car was sold to Hiromitsu Ito and made its way to Japan, where it caused quite a sensation, including the inspiration for the "Circuit Wolf" comic book series.

The vehicle's legend was further cemented when it was chosen by Kyosho as the base for its renowned scale model, whose lines and colors made this SVR an indelible part of toy car lore.

Paolo Gabrielli, Lamborghini Head of After Sales and Director of the Polo Storico, said: "The full restoration took 19 months and required a different approach to the way we normally work. The original production sheet wasn't of much help, as we relied mostly on the specifications from

the 1974 modifications. The challenge for the Polo Storico team was even more daunting as the car arrived in Sant'Agata in pieces, although the parts were all there, and with considerable modifications. The only variations on the original specifications were the addition of 4-point safety belts, more supportive seats and a removable roll bar. These were expressly requested by the customer and are intended to improve safety



## BMW returns to Le Mans – with the world premiere of the new BMW 8 Series Coupe.

14 May, 2018

New luxury sports car to be presented for the first time on 15 June 2018, the eve of the legendary 24-hour race – parallel development of the production model and the BMW M8 GTE guarantees inspiring driving dynamics on the road as well.

**Munich.** 24 hours and a great moment: On the eve of the legendary long-distance race at Le Mans, France, BMW will open a new chapter in the brand's fascinating sports car history. On 15 June 2018, the countdown to the 24-hour Le Mans race will provide the perfect framework for the world premiere of the new BMW 8 Series Coupe. The new luxury sports car was developed parallel to the BMW M8 GTE with which BMW Motorsport will again take to the Le Mans starting grid the next day for the first time since 2011.

In the second round of the FIA World Endurance Championship (WEC) 2018, BMW will be fielding two BMW M8 GTEs. These racing cars already demonstrated their potential at the season opener in Spa-Francorchamps, Belgium, and the US-American IMSA WeatherTech SportsCar Championship. This will now be followed by the debut of the production model, the drive and suspension technology of which



benefits tremendously from the experience gained from motor racing. Profound motor sport expertise is concentrated in particular in the new BMW M850i xDrive Coupe, which offers outstanding dynamic handling characteristics thanks to a new V8 engine, intelligent four-wheel drive, controlled rear axle differential lock, Integral Active Steering, adaptive M suspension technology Professional featuring Active Roll Stabilization and 20-inch light alloy wheels boasting high-performance tyres.

"There isn't be a better setting for the world premiere of the new BMW 8 Series Coupe than the 24-hour race at Le Mans," says Klaus Fröhlich, board member of the BMW AG, Development. "The race is a pure demonstration of passion, dynamics and long-distance capability. These characteristics define our new sports car in a special way."

The broad spectrum of the driving experience reflects the unique character of the new BMW 8 Series Coupe within its competitive

environment. Spontaneous power delivery, captivating agility and the highest degree of precision in extremely dynamic driving situations underscore the sports car's race-proven personality. The new BMW 8 Series Coupe is equally as convincing in the role of the sovereign cruiser that pampers its passengers not only with ride comfort on long stretches of motorway or on country roads, but also with its modern luxury ambience and high-class equipment features.

Therefore, the world premiere of the BMW 8 Series Coupe in Le Mans is also giving an especially emotional go-ahead for the brand's current model initiative in the luxury class. The increased presence in this segment is one of the fields of action defined by the BMW Group in its NUMBER ONE > NEXT strategy. With the market launch of the new BMW 8 Series Coupe, which will begin during the course of 2018, the highest standards at the top of the model range in terms of dynamics and driving culture will be fulfilled.

## THE HOUSE OF ROLLS-ROYCE ENTERS PARTNERSHIP WITH THE SERPENTINE GALLERIES

19 June 2018, Goodwood

· Rolls-Royce and the Serpentine Galleries enter into partnership

· Partnership celebrated at Serpentine Summer Party

· Rolls-Royce Art Programme continues support of internationally renowned art institutions

· Bespoke relationship with the gallery, which is reflective of the marque, will develop during 2019

The House of Rolls-Royce today announces an exciting collaboration with London's Serpentine Galleries. The Rolls-Royce Art Programme furthers its benefactor relationship with internationally renowned art institutions by supporting the Serpentine; a move that demonstrates the marque's commitment to contemporary patronage.

A bespoke relationship with the gallery, which is reflective of the marque, will

develop during 2019. The first initiative this year will see a collection of Rolls-Royce Phantoms and Ghosts spirit the Galleries' generous patrons to the Serpentine Summer Party on Tuesday 19 June, a highlight of the summer season and the Galleries' major annual fundraiser that keeps access to its pioneering programmes free and open to all.

Torsten Müller-Ötvös, Chief Executive Officer, Rolls-Royce Motor Cars, commented, "The Rolls-Royce Art Programme has played an important role in bringing new artworks to fruition; one of its core values is to foster creativity. Through our support of the Serpentine Galleries we continue this legacy. We look forward to developing a bespoke and lasting relationship with one of the most important art institutions in the world."

Yana Peel, Chief Executive Officer, Serpentine Galleries and Hans Ulrich Obrist, Artistic Director, Serpentine Galleries, commented, "The Serpentine is thrilled to have the support of Rolls-Royce Motor Cars, helping us to inspire the widest

audiences by championing the possibilities of art and architecture. We are delighted to celebrate this association with the Rolls-Royce Art Programme and its legacy of support to the contemporary art world. We look forward to a meaningful partnership, which will help keep our programme free and accessible to everyone, all year round."

The Rolls-Royce Art Programme was founded in response to patrons' recognition that Rolls-Royce motor cars transcend a cultural barrier where they are not only commissioned as a means of conveyance, but for their aesthetic power. The programme goes beyond sponsoring the medium and contributes creatively to the fabric of the contemporary art world through a series of commissions by established and emerging artists, and by supporting internationally significant art institutions. These include Foundation Beyeler in Switzerland, Rockbund Art Museum in Shanghai and the National YoungArts Foundation in Miami.

The Serpentine is recognised as one of the leading art institutions in the world. In 2015, Rolls-Royce collaborated with the Galleries to present an exhibition by Ian Cheng, co-commissioning a new digital commission by the artist, entitled Bad Corgi. Cheng returned to the Serpentine to present his first solo UK exhibition in Spring 2018.







## BENTAYGA BREAKS SUV RECORD AT PIKES PEAK

(Crewe, 25 June 2018) The Bentley Bentayga has again demonstrated its outstanding performance credentials by claiming the outright record for a production SUV at the Pikes Peak International Hill Climb.

Driven by two-time champion Rhys Millen (NZ), the Bentayga completed the 12.42-mile course in just 10:49.9 – taking nearly two minutes off the previous record by averaging 66.5 mph. Climbing almost 5,000 ft through 156 corners, the Bentayga deployed its unique combination of a 600 bhp, 900 Nm W12 engine, adaptive air suspension, active electric 48V anti-roll control and carbon ceramic brakes to set a stunning new benchmark.

Bentley's Member of the Board for Sales & Marketing, Chris Craft, comments:

"This record proves the outstanding dynamic ability of the Bentayga – demonstrating again how Bentley Motors is the only automotive company in the world that can combine pinnacle luxury and breath-taking performance. Congratulations

to all at Bentley Motorsport and to Rhys Millen and his team."

Speaking immediately after his run, Rhys Millen commented:

"What an incredible machine.

To take a luxury SUV with minimal modifications and be able to drive up this course in under 11 minutes is a huge testament to the performance and level of engineering in the Bentayga. I had a great run – the car was planted all the way up and gave me the confidence I needed to push hard. I'm delighted to take the SUV record for Bentley and for everyone that's been involved in this project."

Only minimal changes were made to a standard production Bentayga in order to comply with the rules. The front seats were replaced with racing versions while the rear seats were removed, and a roll cage and fire suppression system were installed. Tyres were selected from Pirelli's DOT-marked range, and a production-specification Akrapovic sports exhaust was fitted. In every other way, the Pikes Peak car is a standard Bentayga, finished in eye-catching Radium Satin paintwork accented by the all-black chrome and carbon fibre body kit provided by Bentley's Black Specification.

### Striking Limited Edition Bentayga celebrates new record

To celebrate the record-breaking run, Bentley is today announcing a new Limited Edition Bentayga, strictly limited to just ten cars. Created and handcrafted by Mulliner - Bentley's in-house bespoke and

coachbuilding division – the Pikes Peak Bentayga is an homage to the achievements of the Bentayga W12 on the mountain.

The Pikes Peak Bentayga features of number of eye-catching elements. The exterior is finished either in deep Beluga black paint or striking Radium, with 22" wheels in a bespoke two-tone finish of Beluga with Radium accents. The Black Specification is included, replacing all exterior chrome with gloss black components and adding a carbon fibre splitter, side skirts, diffuser and rear spoiler. A subtle Pikes Peak motif adorns the front fenders.

Inside the car, a Mulliner Design Colour Split marries Key Lime accents with Beluga leather, with Alcantara inserts to the seats and doors. The steering wheel and gear lever are also trimmed in Alcantara, and the headlining is technical Eliade cloth. A Pikes Peak logo decorates the carbon fibre fascias, and numbered Pikes Peak treadplates complete the interior.

Under the skin, the Pikes Peak Bentayga features the same engine and chassis systems as the record-breaking racer. Bentley's iconic 6.0-litre twin turbo W12 provides 600 bhp and 900 Nm, fed through a ZF eight speed automatic transmission to permanent four-wheel drive. Adaptive air suspension and Bentley's unique and world-first 48V electric active anti-roll control system (Bentley Dynamic Ride) ensure the perfect balance between refined ride comfort and optimum body control. The Bentayga Sports Exhaust and Touring Specification pack complete the car.

## ASTON MARTIN VANATGE GTE RECORDS FIRST LE MANS POINTS FINISH

\* Vantage GTE #95 DaneTrain completes trouble-free first Le Mans

\* Double points finish for Aston Martin Racing in GTE Pro

\* Aston Martin Vantage GTE highest placed new GTE car in the field

### Sunday 17 June, Le Mans:

Aston Martin Racing's brand new Vantage GTE recorded a double-points finish on its Le Mans 24 Hours debut. Despite coming into the world's most gruelling endurance race with only one competitive outing previously at Spa-Francorchamps, the two Vantage GTEs raced through the night with barely a hitch as the #95 car recorded its first top ten finish at the Circuit de la Sarthe.

This was an impressive achievement for the 4.0-litre twin turbocharged V8-powered race car, based on the highly-acclaimed road car borne of Aston Martin's second century plan and driven by Danish duo Nicki Thiim, Marco Sorensen, and three-time Le Mans winner Darren Turner after it had to be rebuilt from a new frame and roll cage after a testing crash.

Despite this challenging build-up the 'Danetrain' ran as its nickname suggested and from the moment in



turned a wheel in free practice on Wednesday, did not register a single reliability issue and went on to record the highest finish by a new GTE car in the 86th running of the event.

The #97 crew, of Maxime Martin (BEL), Alex Lynn (GB) and last year's winner Jonny Adam (GB) also finished the race in the FIA World Endurance Championship points positions, when you take into account the non-championship registered cars in front of them.

"It's always an achievement to finish the race at Le Mans, which is the toughest and most important endurance event in the world," said Darren Turner. "Even though we have had a significant test programme with this car, racing for 24 hours is a much tougher test, so to come through and pass it so strongly is very gratifying. We will find more pace in the coming races, but this is a fantastic platform to come next year and fight for another

victory." Aston Martin Racing President, David King said: "You need three things to win Le Mans; reliability, the ability to avoid trouble and pace. We had two of those today and we will find the other as the season progresses. I am immensely proud of the team and of the car they have produced and for us to finish with both Vantage GTEs in the points is an example of a well executed race plan. We have gathered significant amounts of data and understanding about this car and, working with our technical partners Total and Michelin, we will extract the full potential of the Vantage GTE and return next year fighting for victory."

The next race in the FIA WEC takes place at Silverstone (GB) on 19 August.



# GONE CRUISIN'

Gary's Hot Rods & Cruisers



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/>

## AMERICAN FORCE

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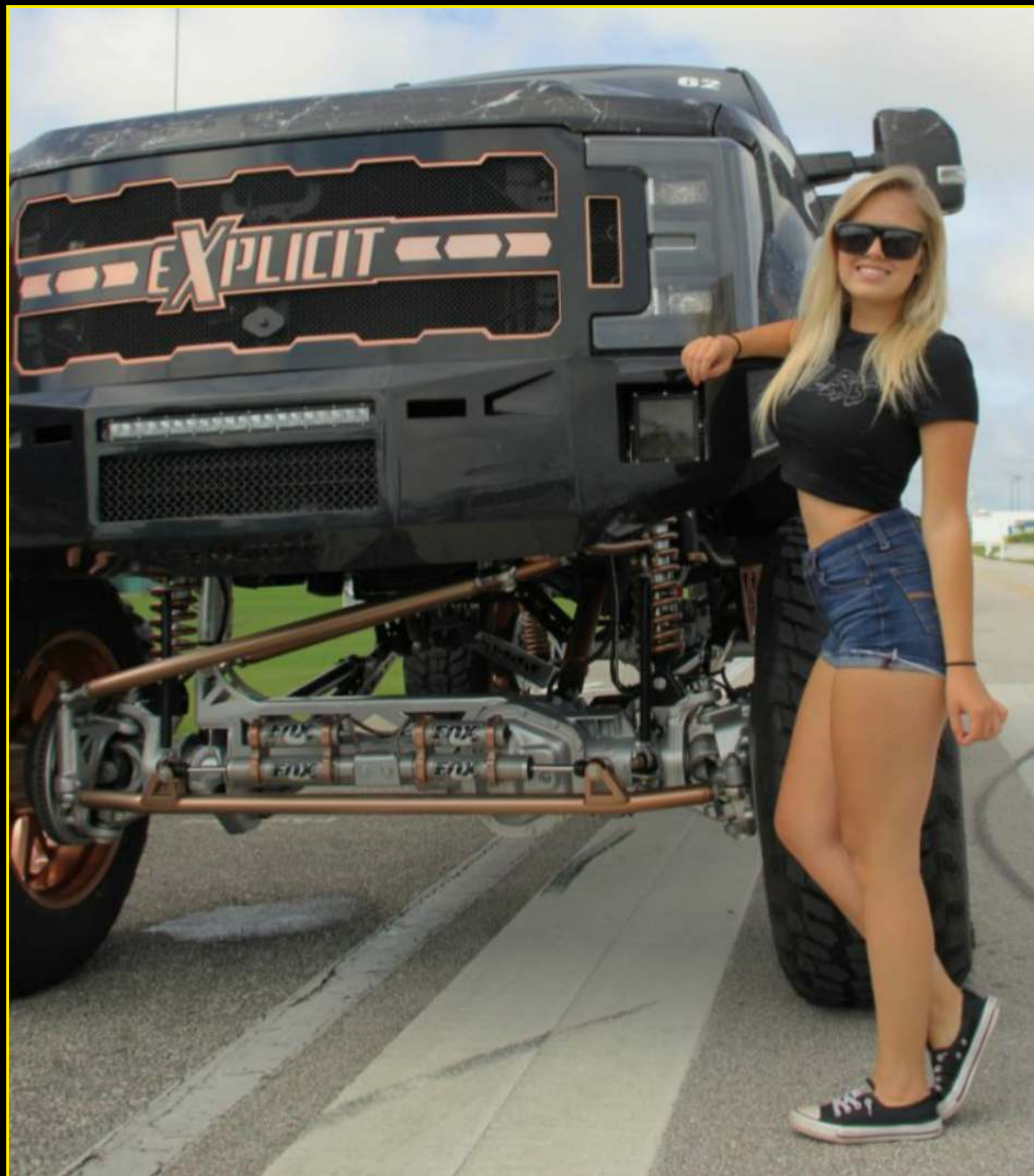






























































































































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