

August 24, 2018

A classic performance vehicle reimagined **Singer Vehicle Design and Bosch Bring Modern Performance to the Air-Cooled Porsche 911**

- ▶ Singer and Williams Advanced Engineering pursued the most advanced air-cooled Porsche 911 in the world for their client
- ▶ Singer turned to Bosch to enhance performance through a modern ESP system
- ▶ The integration of Gen9 ESP from Bosch brings modern levels of safety and on-track performance – on par with supercars of the world

FARMINGTON HILLS, Michigan – Imagine your favorite classic vehicle, but with modern performance. That is what Singer Vehicle Design has done with the 964-era Porsche 911 vehicles restored for their clients. A key aspect of bringing modern performance to these vehicles has been Bosch technology such as electronic stability control, also known as electronic stability program (ESP), and engineering expertise from the Bosch team.

Singer revealed its newest client-inspired work, the Dynamics and Lightweighting Study (DLS), at the 2018 Goodwood Festival of Speed. DLS is a collaboration with Williams Advanced Engineering and a formation of technical partners, including Bosch, in pursuit of the most advanced air-cooled Porsche 911 in the world. The DLS was showcased as part of both a static display outside the Goodwood House and performed as part of the Michelin Supercar Paddock Hillclimb Run. The vehicle is on display for the first time publicly in the U.S. at Monterey Car Week beginning August 23. Additionally, the car will be displayed upon the famed concept lawn at the globally renowned Pebble Beach Concours d'Elegance on Sunday, August 26.

Original 964-era Porsche 911s came equipped with a Bosch ABS 2U system, which Singer currently restores for their Classic Commissions. For the DLS, however, Singer desired a new level of technology and refinement and turned to Bosch.

“It’s really important for us that the addition of these systems shouldn’t spoil the driving experience, and still allow the driver to explore the dynamic limits of the vehicle, with varying levels of driver-selected assistance,” said Mazen Fawaz, Managing Director at Singer Vehicle Design. “We’re delighted with the way that the Bosch team have been able to work with us to develop the system to deliver the level of performance in the way that we always intended. We’ve created something together that we think is really quite special.”

The engineering team at Bosch focused on integrating a modern ESP system to provide not only safety, but also high-level racetrack performance. Singer, Williams and Bosch worked together to ensure that the sensors and communication architecture necessary for modern ESP controls were integrated into the custom design of the vehicle from the beginning.

“Singer’s meticulous level of detail in all facets of their work aligned well with our Invented for Life vision of developing technology that provides benefit – in this case through improved safety and performance,” said Keith Andrews, regional president of Bosch Engineering Group in North America. “Our team embraced the challenge to integrate the ESP in a modern fashion while respecting the heritage.”

The Bosch Engineering Group team in North America has spent the past 10 years refining a Brake Controls solution optimized for racetrack driving. Multiple sports car programs and thousands of hours later; Singer is tapping into this experience and expertise.

“When we were planning the Dynamics and Lightweighting Study, coming to Bosch for the ABS, traction control & ESP system was a natural choice for us,” Fawaz said. “From an early stage of discussions, it was obvious that the team there were really enthusiastic and understood the character that we are trying to give to the vehicle.”

Contacts:

Tim Wieland

Bosch in North America

Phone: +1 248-876-7708

Tim.Wieland@us.bosch.com

@timwieland

Deb Pollack

Singer Vehicle Design

deb@singervehicledesign.com

About Bosch

Having established a regional presence in 1906 in North America, the Bosch Group employs nearly 34,500 associates in more than 100 locations, as of December 31, 2017. In 2017 Bosch generated consolidated sales of \$13.7 billion in the U.S., Canada and Mexico. For more information, visit twitter.com/boschusa, twitter.com/boschmexico and www.bosch.ca.

The Bosch Group is a leading global supplier of technology and services. It employs roughly 402,000 associates worldwide (as of December 31, 2017). The company generated sales of 78.1 billion euros (\$88.2 billion) in 2017. Its operations are divided into four business sectors: Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology. As a leading IoT company, Bosch offers innovative solutions for smart homes, smart cities, connected mobility, and connected manufacturing. It uses its expertise in sensor technology, software, and services, as well as its own IoT cloud, to offer its customers connected, cross-domain solutions from a single source. The Bosch Group's strategic objective is to deliver innovations for a connected life. Bosch improves quality of life worldwide with products and services that are innovative and spark enthusiasm. In short, Bosch creates technology that is "Invented for life." The Bosch Group comprises Robert Bosch GmbH and its roughly 440 subsidiary and regional companies in 60 countries. Including sales and service partners, Bosch's global manufacturing, engineering, and sales network covers nearly every country in the world. The basis for the company's future growth is its innovative strength. At 125 locations across the globe, Bosch employs some 64,500 associates in research and development.

Additional information is available online at www.bosch.com, www.iot.bosch.com, www.bosch-press.com, www.twitter.com/BoschPresse.

About Singer Vehicle Design

Singer Vehicle Design (Singer) restores and reimagines 1989 to 1994 Porsche 911s for its clients. Singer does not manufacture or sell automobiles.

Singer is not sponsored, associated, approved, endorsed nor, in any way, affiliated with Porsche Cars North America, Inc., or Dr. Ing. h.c.F. Porsche, AG. The Porsche® name and crest and 911® are trademarks of Dr. Ing. h.c.F. Porsche AG, and any other products mentioned are the trademarks of their respective holders. Any mention of trademarked names or other marks is for purpose of reference only.

The product of Singer's painstaking effort is a Porsche 911 restored and reimagined by Singer. Out of respect for Porsche, and to respect Porsche's trademark rights, this incredible machine should never under any circumstances be referred to or described as a "Singer," "Singer 911," "Singer Porsche 911" or a "Porsche Singer 911," or in any other manner that suggests that it is anything but a Porsche 911.