

UPGRADED FLIGHT PANEL GIVES RACE PILOT AN EDGE

BendixKing solutions provides a fast, simple and powerful integrated flight deck with superior craftsmanship for experimental aircraft.

Case Study

"By upgrading the flight panel with BendixKing products our aircraft is 40 pounds lighter, allowing for faster speed along the race course."

Joe Coraggio, Race Pilot

BendixKing

OVERVIEW

Professional Airline Pilot and Race Pilot, Joe Coraggio fell in love with aviation long before he could even drive. From the moment a relative let him fly his airplane when Joe was 12 years old, he was hooked. In preparation for the upcoming Reno Air Races, Joe chose to upgrade the flight deck display on his Lancair Legacy aircraft with the BendixKing Integrated Flight Deck. With cutting-edge technology and enhancements, Joe's upgrade provided him the competitive edge for racing.

BACKGROUND

Joe's passion for aviation runs deep. As a second - generation Experimental Aircraft Association (EAA) Young Eagle, he has been active in the program for more than 20 years. Shortly after his first plane ride, he found a day camp at a general aviation airport close to his house. This is where he had his first "Young Eagle" ride. He credits the EAA Young Eagles program for much of the success he's had in his aviation career.

The local EAA chapters took Joe under their wing and encouraged his passion for flying. On his sixteenth birthday, Joe completed his first solo flight before heading to the DMV to get his driver's license. On his seventeenth birthday, he earned his pilot's license.

From here, there was no turning back. His first job was at the airport, as a ground volunteer, driving around a fuel truck. This is where he earned his nickname, "Ramp Rat" because he was always hanging around the airport. Today, his race team name "Ramp Rat Racing" stems from these childhood joys.

When he is not professionally flying or prepping for races, he serves as Vice Chairman of the Airventure Cup Race where he spends his time mentoring aspiring aviation professionals. He has flown more than 80 Young Eagle flights provided through the Airventure Cup Race.



Joe's dream of competing in the STIHL National Championship Reno Air Race, the fastest motorsport on Earth, is now coming true.

When flying at speeds of 300 MPH, it's essential for Joe Coraggio to be able to predict precisely what's coming next and to be able to react even before it happens. That's why he engaged with BendixKing to upgrade his flight deck panel to help him qualify for the upcoming race.



SOLUTION

Joe upgraded the entire panel on his Lancair Legacy aircraft with BendixKing's Integrated Flight Deck solution. His new flight panel incorporates the xVue Touch, AeroNav GPS navigator, xCruze autopilot, AeroPoint 200, KT-74 transponder, KMA 30 audio panel, and the AeroFlight backup attitude indicator.

Joe will be racing his BendixKing Lancair in the 2019 Reno Air Race. This sporting event is similar to NASCAR and Formula 1 racing, but in the skies.

Since the installation of his new flight panel, Joe's aircraft is now 40 pounds lighter with BendixKing's lightweight solution.

"In the aviation racing industry, this is a big deal," said Coraggio. "Every pound that we can get out of the airplane allows it to fly faster along the race course, while also improving the handling of the airplane."

Racing requires Joe's complete concentration, and the need to quickly find where everything is on his display so he can react quickly. BendixKing is an iconic brand that Coraggio has trusted since he started flying 24 years ago.

Once Coraggio completes a race, his team is able to easily analyze his flight data to determine if everything was working at optimal levels. Through the xVue Touch's built-in Wi-Fi, the aircraft can upload information to databases and update software in a few minutes. This feature helps Joe and his mentor to decide if anything needs to be adjusted before the next race, allowing for continuous improvements over time.

Joe's fellow race pilot and mentor, George Catalano, appreciated the fact that the products and solutions from BendixKing provide all the necessities to install a full flight panel in one location.

QUICK FACTS

Customer

- Name: Joe Coraggio
- Location: Phoenix, AZ, USA
- Industry: Aviation, Racing
- Website: garaggio.wordpress.com
- Facebook @rampratracng

BendixKing Solution

Integrated Flight Deck Solution

- xVue Touch display
- AeroNav GPS navigator
- AeroPoint 200 engine data monitoring
- xCruze autopilot
- KT-74 transponder
- KMA 30 audio panel
- AeroFlight backup attitude indicator

Why Joe Coraggio choose BendixKing

- Superior craftsmanship, quality product features
- Excellent communication and customer service
- Commitment to investing years of testing
- Low-cost, high-performance product with cutting edge technology

Customer Results

- Readily available onboard weather, traffic and charts
- Increased situational awareness to terrain and airspace
- Weight-shed from older avionics translated to speed gain along race course



BENEFITS

BendixKing's Integrated Flight Deck ensures that both the aircraft and the pilot are always connected to real-time data and people.

When pilots race, they are often flying 50 feet above the ground at 300 miles per hour, which requires a pilot's undivided attention and critical information available at their fingertips.

"You need to be so proficient with your airplane. When you are flying you don't have time to look and see where anything is, your hand just goes to it automatically," says Coraggio.

The xVue Touch provides the right combination of touch screen and physical knobs to accomplish what Coraggio needs quickly, and by muscle memory.

Satisfying the need for Joe to predict what is coming next and to be able to react to it

before it happens, the BendixKing display is streamlined to ensure that every critical function can be accessed in two or fewer touches.

With the xVue Touch's 4K resolution, Joe has a comprehensive visual of his aircraft's location. The 10.1" PFD/MFD display provides a top-down view of where the pilot is on a map, and a vertical view of where the aircraft is in relationship to terrain and airspace.

"This balanced view really helps increase your situational awareness," said Coraggio.

As a result of onboard ADS-B weather and traffic reports and autopilot control, Joe's updated system gets him from point A to point B reliably, comfortably, and safely.

Ramp Rat Racing manager, Kevin Vernon-Harris said, "BendixKing really puts their customers first. They make sure

technology, solutions, and products are exceptional, especially for the general aviation community."

And now, thanks to BendixKing products and solutions, Coraggio's childhood dream of the ultimate freedom to fly and race aircraft remains alive and thriving.

BendixKing

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