



SPRATT
FINANCIAL SERVICES

Are your family and assets protected?

We are PILOT LIFE INSURANCE SPECIALISTS and can guide you through the process of PROTECTING YOUR FAMILY AND BUSINESS as well as INSURING YOUR DEBTS

Contact Craig Spratt
Spratt Financial Services Limited
Phone: 021 935 788 or 09 306 7250
Email: craig@spratt.co.nz
www.spratt.co.nz

Independent brokers protecting pilots since 1992

Fixed Wing and Helicopter

**Maintenance Control for Air Transport
ARAs, W&B, Maintenance and Repair Services**



Hangar 1, Steele Road Phone Paul on 07 843 1200 or 021 743 033
Hamilton Airport Email: paul@centralaero.co.nz www.centralaero.co.nz

Aircraft Control Cables Manufactured

Martin Aviation Services Ltd 19 Village Way
ARDMORE AIRPORT
PAPAKURA STH AUCKLAND
CAA Approved - AM 36375 POBox 88067 Clendon Manurewa
Part 148

For all swaged or nicopress cables from 1/16" to 3/16"
Cables and fittings in stock. Same day turnaround - Competitive prices

Hand splicing service available. Piper Cub trim cables a specialty.

Contact John Geary Ph 09 298 6698 Fax 09 298 5225
Email: johng@slingshot.co.nz



Certified Electronic Ignition Kits now available for a wide range of 4 cylinder aircraft engines

KiwiFlyer first met up with Matt Bailey of Wanaka based Performance Aviation back in 2009 when they launched their new PowerFlow exhaust system for the Robinson R22 Beta helicopter. This was designed by Performance Aviation in association with PowerFlow Systems Inc., for whom they are preferred dealers in the Pacific region. On the R22, the Powerflow system offered improved hot and high performance, more efficient carb and cabin heat, and up to 5 litres per hour of fuel savings. Back then Matt explained that, alongside of traditional helicopter and fixed wing maintenance, one of Performance Aviation's goals was to save operators money by introducing better solutions for known problems.

That philosophy continues with Performance Aviation now offering Electroair electronic ignition systems which are FAA certified and STC approved for a large variety of 4 cylinder fixed wing aircraft. Matt says they are delighted to have been recently appointed as Australasian dealers for Electroair and that this obviously fits in very well with their PowerFlow agency.



Benefits of the Electroair EIS-41000

The EIS-41000 series of Electronic Ignition Kits are fully STC'd for most Lycoming and Continental 4 cylinder engines. Kits cover the range of direct drive (non-impulse coupled) and impulse coupled magnetos for both normal and counter-rotating engines with 12V or 24V systems. Electroair kits include all parts (except for switches and circuit breakers which tend to be client specific) to replace the direct drive (typically right hand) magneto.

Electroair say that replacing one magneto with the EIS-41000 will typically improve fuel economy on average by 10-15% (many operators have reported consistent fuel savings of 1gph or greater). Additionally there will be an improvement in horsepower, smoother engine operation, and improved high altitude performance.

Matt says that customers can also expect easier starting and longer spark plug life with less fouling. Most parts on the EIS-41000 are not life limited, contributing towards lower maintenance costs and an expectation that the system will comfortably pay for itself within the first 1000 hours.

Electroair history and development

Electroair was started in the USA in 1992 by Jeff Rose who had become interested in electronic ignition systems and their application on experimental aircraft (Jeff having built several).

As the technical challenges of coupling the ignition system to an aircraft engine were overcome, Jeff turned his attention to developing an appropriate timing curve which would take advantage of variable timing. In aircraft applications, efficiencies in both power and fuel consumption can be realised if ignition timing is varied based on altitude changes. Magnetos have fixed timing, which was based essentially on the highest load conditions for an engine - typically at full-power, sea level operations. Jeff developed a Manifold Air Pressure (MAP) sensor that would supply a signal to the ignition system to adjust ignition timing as MAP changed.

Focusing on experimental aircraft, Jeff developed systems for a wide variety of aeromotive and automotive engines. Now under new ownership, Electroair received its first STC for an electronic ignition system in July 2011 and has since completed a major expansion of their Approved Model List (AML) by adding several aircraft models that use 4 cylinder Lycoming and Continental engines, including the O-200, IO-240, C-85, C-90 and more. Electroair continues to work with OEMs in an effort to expand the Approved Model List and has approximately 90% of certified 4 cylinder engines now covered.

The company has worked with numerous flight schools and fleet operators to assist in fleet-wide implementation of electronic ignition systems and is continuing to expand its operation, staff, and international distribution network.

For more information

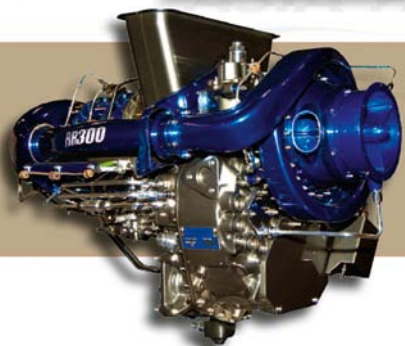
More information is available on the Electroair website, www.electroair.net or contact Matt Bailey at Performance Aviation on 03 443 8989 or 021 744 588, email: matt@performanceaviation.co.nz or visit www.performanceaviation.co.nz Performance Aviation are also on Facebook at www.facebook.com/PerformanceAviationLtd



an authorized
Rolls-Royce
maintenance & overhaul centre

Contact Owen Walker
Phone: 09 295 1407
Fax: 09 296 1728
Mobile: 021 987 397
Email: owen.walker@apaero.co.nz

We are pleased to announce the opening of our new state of the art
Engine Repair and Overhaul Facility and invite your inspection.



We are also pleased to announce that APA is now approved by **Rolls-Royce** as
An Authorized Maintenance Repair and Overhaul Centre (AMROC) for the RR300 turbine engine.

We are the first company in the world to achieve this AMROC approval.

www.apaero.com.au

The National Safety and Risk Management Diploma Series

ACCREDITATION:	SERVICEIQ
DELIVERED BY:	AEROSAFE RISK MANAGEMENT
ENDORSED BY:	CIVIL AVIATION AUTHORITY OF NEW ZEALAND
SUPPORTED BY:	AVIATION NEW ZEALAND

The National Safety and Risk Management Diploma Series has been developed in collaboration with industry and the regulatory body, to ensure they address the specific training needs of New Zealand aviation. They cater to all sectors of the aviation industry from large airlines to small general aviation operators, airports, maintenance organisations, adventure aviation activities through to Defence activities.

For more information please contact;
Melvin Samuel: Aerosafe Business Development Manager
on (04) 496 5206 / msamuel@aerosafe.com.au



**DIPLOMA
IN SAFETY
MANAGEMENT
SYSTEMS**

**DIPLOMA
IN RISK
MANAGEMENT**

**DIPLOMA
IN REGULATORY
OVERSIGHT AND
GOVERNANCE**