



RV CONNEX

AIRCRAFT

UPGRADE AND MODIFICATION



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Aircraft are engineered for long-term durability and operational readiness. To sustain optimal performance over time, it is essential not only to adhere to rigorous maintenance standards but also to implement continuous upgrades to avionics and mission-critical systems. These enhancements are vital for mitigating obsolescence and ensuring alignment with evolving tactical and operational requirements.





With years of expertise, RV Connex provides integrated support and customized service solutions across a wide range of aircraft platforms. Our offerings include cockpit avionics upgrades, airframe and systems modifications, and seamless integration of advanced mission systems—enhancing situational awareness, interoperability, and combat readiness.

NOTABLE AND SUCCESSFUL PROJECTS

- Structural, avionics, data link, and weapon system upgrades on the Dassault/Dornier Alpha Jet.
- Capability enhancement on the Fairchild AU-23 Peacemaker.
- Development, manufacturing, and integration of unmanned aircraft systems such as the U1 and JRV-1.
- Design, manufacturing, and installation of mechanical and electrical A-Kit & B-Kit for the Northrop F-5.
- Manufacturing of electrical A-Kit components for the T-6C.
- Electrical A-Kit production and data link development for the AT-6 Wolverine.



CAPABILITIES

RV Connex delivers full-spectrum refurbishment and capability upgrades tailored to evolving operational needs. We support platforms such as the PC-9, CT-4, RTAF-6, F-5, AU-23, and Alpha Jet. Our in-house mechanical and electrical A-Kit production ensures precision and integration accuracy. Every solution is tailored to mission demands, using validated technologies grounded in real-world performance.

SOLUTIONS:

- Mechanical and Electrical A-Kit Production.
- Cockpit Modernization.
- Avionics and Mission Systems Upgrades.
- National Data Link and Secure Communications Integration.
- Radar System Integration.
- Weapons Systems Installation.
- Electrical Wiring and Harness Fabrication.
- Operational Flight Program (OFP) Development.

SERVICES:

- On-the-Job Training (OJT) Programs.
- Simulator Development and Integration.
- Test Pilot Services.
- Custom Air-to-Air and Air-to-Ground Data Link Solutions.
- Engineering Design and Airframe Modifications.
- Supply Chain Management and Logistics Support.
- Network and Information Security Solutions.



COMPOSITE
PARTS



MECHANICAL
PARTS



BEFORE



AFTER

STANDARDS AND CERTIFICATIONS

RV Connex operates in strict compliance with international airworthiness and safety regulations. Our processes conform to STANAG, US Military Standard (MIL-STD), ISO 9001, AS9100D, IPC/WHMA-A-620, and IPC-A-610. This strong foundation in global standards underpins our commitment to quality across every phase — from design and development to integration and testing — ensuring consistently high-performance solutions you can trust.

CAL



ELECTRICAL
PARTS

ENGINEERING STANDARDS FOR AIRCRAFT MODIFICATION & DESIGN

We design, test, and manufacture in accordance with internationally recognized aerospace and military standards, ensuring structural integrity, system compatibility, and mission readiness.

GENERAL STANDARDS

- JSSG-2006 – Joint Service Specification Guide for Aircraft Structures.
- AS9100D (Compliant) – Quality Management Systems for Aerospace and Defense.
- MIL-STD-810F – Environmental Engineering Considerations and Laboratory Testing.
- MIL-STD-1472F/G – Human Engineering Design Criteria.
- MIL-A-8865B – Aircraft Strength and Rigidity – Miscellaneous Loads.
- MIL-STD-8591 – Airborne Stores, Suspension Equipment, and Aircraft-Store Interface (Carriage Phase).

STRUCTURAL DESIGN STANDARDS

- JSSG-2006 – Aircraft Structural Design.
- MIL-STD-1587E – Aerospace Material and Process Requirements.
- MIL-A-8865B – Strength and Rigidity Standards.
- MIL-STD-8591 – Store-Carriage Interface Requirements.

ELECTRICAL DESIGN STANDARDS

- SAE AS50881 – Aerospace Wiring Systems.
- MIL-HDBK-83575 – Wiring Harness Design for Space and Aerospace Vehicles.

MATERIAL & SURFACE FINISHING STANDARDS

- MIL-STD-7179 – Protective Finishes, Coatings, and Sealants for Aerospace Systems.

AIRWORTHINESS & CERTIFICATION

- MIL-HDBK-516C – Airworthiness Certification Criteria.

CERTIFICATIONS & REGULATORY COMPLIANCE

AIRWORTHINESS COMPLIANCE

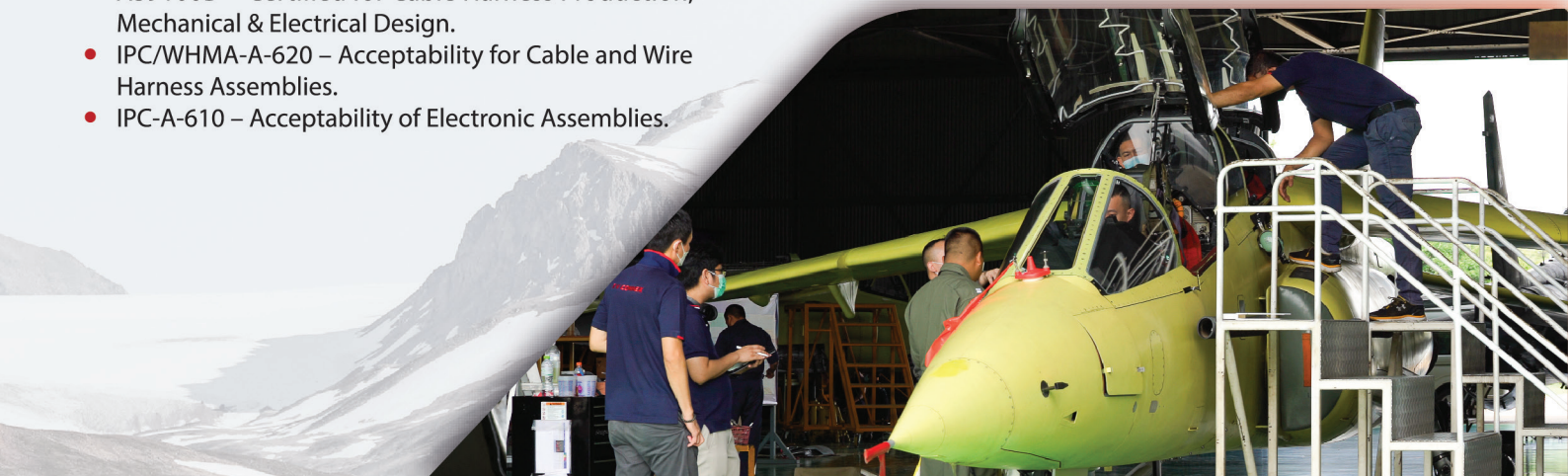
- FAA FAR – U.S. Federal Aviation Regulations.
- EASA CS – European Aviation Safety Agency Certification Specifications.
- MIL-HDBK-516 – Military Airworthiness Certification Criteria.

QUALITY MANAGEMENT SYSTEMS

- ISO 9001:2015 – Certified for UAV Engine Repair & Maintenance.
- AS9100D – Certified for Cable Harness Production, Mechanical & Electrical Design.
- IPC/WHMA-A-620 – Acceptability for Cable and Wire Harness Assemblies.
- IPC-A-610 – Acceptability of Electronic Assemblies.

PRODUCTION & DEVELOPMENT STANDARDS

- CMMI – Capability Maturity Model Integration for Software Development.
- NDT Level I/II – Non-Destructive Testing for Mechanical Components.
 - Including Liquid Penetrant Testing (Level II).





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Redefined Flight Capabilities Through Precision Upgrades and Tailored Solutions



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Disclaimer: In keeping with our policy on continuous product
improvement, all specifications are subject to change at any time.

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