

SHORT-POD™ APU Upgrade Kit for C-130 Aircraft



Improved Reliability. Reduced Cost of Ownership.

Lockheed approved
SHORT-POD™ APU
Upgrade Kit modernizes
C-130 aircraft.



Overview

Kellstrom Defense Aerospace, Inc. (Kellstrom Defense) is the Original Equipment Manufacturer (OEM) for the SHORT-POD™ Auxiliary Power Unit (APU) Upgrade Kit, used to modernize Pre-1974 production C-130B through early C-130-H aircraft by replacing the original Gas Turbine Compressor/Air Turbine Motor/ATM Generator with the SHORT-POD™ APU. Kellstrom Defense's (KD) proprietary design and continuous improvement of this distinctive upgrade kit has enabled us to deliver more than 78 SHORT-POD™ APU Upgrade Kits to 15 international and domestic customers.

Background

As platforms age, OEM support for sustainment diminishes and end-users tasked with maintaining operational readiness are faced with critical supply chain deficits. Kellstrom Defense offers its military customer base legacy aircraft solutions that address these shortfalls. We are a global provider of comprehensive support for U.S. manufactured legacy defense platforms including fighters, transports, patrol aircraft and helicopters. Our "Total Support" approach encompasses strategic distribution, maintenance, repair & overhaul, engineering & manufacturing, modernization solutions, and overall program management.

KD's Engineering & Manufacturing Division continues to grow its capabilities in order to keep up with the legacy aftermarket demand for engineering solutions, including the re-design and modernization of aircraft systems.

Business Need

The original Gas Turbine Compressor on C-130 B-H aircraft delivered prior to 1974 has a very low Mean Time Between Unscheduled Repairs (MTBUR), as well as a marginal capability to produce sufficient pneumatic power to reliably

start the T56 engines. As the GTC85-71A wears through normal use, it's pneumatic power production degrades and ultimately reaches a point where it no longer can start the engines independent of ground power carts. Additionally, the GTC85-71A is unable to power either one of the aircraft Environmental Control Systems during normal operations. Finally, the obsolete GTC85-71A is operable on the ground only, which means that it's power production is not available in flight, even in emergencies.

Solution

The SHORT-POD™ APU Upgrade Kit is a Lockheed approved solution that provides C-130 operators with increased reliability and reduced maintenance costs by replacing the out-of-production GTC/ATM/ATM Generator with the SHORT-POD™ APU. The upgrade kit includes the SHORT-POD™ APU, control panel, improved cowling, hardware, Technical/IPC/Flight manual updates, engineering support for installation, and ground and flight crew training.

Benefits

The SHORT-POD™ APU Upgrade Kit offers C-130 operators with improved reliability, greater MTBUR, lower cost of ownership, greater mission autonomy due to secure engine starts, and ECS operation on the ground without main engines or GSE support. This innovative and distinctive design solution is operable while airborne, providing added margin of safety and a back-up power source for pneumatic and electrical systems while airborne.



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