

## SHORT-POD® APU (Auxiliary Power Unit) Upgrade Kit

PN: LE49000-507, NSN 1680-01-593-3146

### OVERVIEW

AllClear is the Original Equipment Manufacturer (OEM) for the SHORT-POD® APU (Auxiliary Power Unit) 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.

### BACKGROUND

The original GTC85 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, its 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 its power production is not available in flight, even in emergencies.

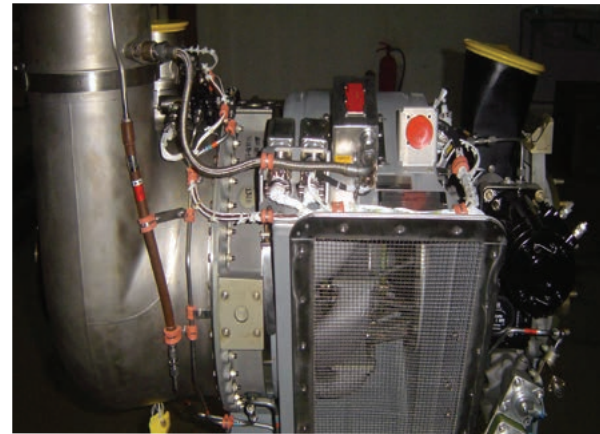
AllClear's proprietary design and continuous improvement of this distinctive upgrade kit has enabled us to deliver more than 78 SHORT-POD® APU Upgrade Kits to fifteen international and domestic customers.

### KIT INCLUDES

- + SHORT-POD® APU
- + Control panel
- + Improved cowling
- + Hardware
- + Technical/IPC/Flight manual updates
- + Engineering support for installation
- + Ground and flight crew training

### SOLUTION

The SHORT-POD® APU Upgrade Kit is a Lockheed Martin approved solution that provides C-130 operators with increased reliability and reduced maintenance costs by replacing the out-of-production gas turbine compressor/air turbine motor/ATM generator with the SHORT-POD® APU.



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## WHY UPGRADE

- Approved, licensed & hologramed by Lockheed Martin Global Sustainment Services
- Improved ground ECS cooling capacity
- Increased operational capability & mission readiness reduce maintenance downtime
- Increased bleed air availability, which reduces the possibility of hot or stalled starts
- APU direct drive generator (same as engine driven) increased available electrical power while decreasing electrical power fluctuations
- APU high output air provides quicker engine starts, reducing starter and turbine wear and tear
- Certified for in-flight operation of up to 18,000 ft.
- 50% less expensive than the long pod installation

## PERFORMANCE COMPARISON

	GTC	SHORT-POD® APU
Engine	GTC85-71A	GTC85-180L
Generator	20/30 KVA	40 KVA
Bleed Air	90 PPM	150 PPM
Kit Weight	<500 lbs	<500 lbs
MTBUR	450 Hours	3,350 Hours
Powers	Essential AC Bus and all DC Busses	Essential and Main AC Busses and all DC Busses

## SHORT-POD® APU IN-HOUSE MRE SERVICES

### APU Repair & Overhaul

### APU Component Repair & Overhaul

Starter  
Exciter  
Fuel Control  
Oil Pump

**Honeywell**



## UPGRADE BENEFITS

- ✔ Improved reliability
- ✔ Greater MTBUR
- ✔ Lower cost of ownership
- ✔ Greater mission autonomy due to secure engine starts
- ✔ ECS operation on the ground without main engines or GCS support
- ✔ No major aircraft modification needed
- ✔ 25 days installation time

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