LOCKHEED C-130 Hercules Model Guide

The LOCKHEED C-130 Hercules is a turboprop transport family. The registry lists variants including C-130A and C-130B, with family maxima of up to 135 passengers, 3890 nm range and 70300 kg MTOW. The documents are a USCG flight manual and a Lockheed Martin fuel-system service bulletin. Neither gives a variant-specific performance table.

KEY TAKEAWAYS

- Registry data (family maxima only) shows a turboprop with up to 135 passengers, 3890 nm range and a 33000 ft service ceiling.
- The USCG flight manual CGTO 1C-130-1 is dated 15 December 2000, Change 1 dated 1 July 2001. Its performance data is in T.O. 1C-130H-1-1.
- Service Bulletin 82-770 / 382-28-19 Rev 4 requires fuel-system bonding and wiring inspections, about 952 man-hours per aircraft.
- Check records for compliance with that bulletin and for the status of operational supplements.

WHAT THE DOCUMENTS COVER

The flight manual covers systems, normal and emergency procedures, crew duties and operating limitations for USCG-series C-130 aircraft. Performance figures are not in it: it points to T.O. 1C-130H-1-1 for aircraft with T-56-A-15 engines. The library row's 'single-engine-piston' category conflicts with the registry's turboprop class, so treat it as a data error.

FUEL SYSTEM SERVICE BULLETIN

Service Bulletin 82-770 / 382-28-19, Revision 4 (18 September 2008), calls for visual and electrical inspection of fuel-tank bonding jumpers, pumps, Fuel Level Control Valve conduits and quantity-indicating wiring. Lockheed Martin estimates about 952 man-hours (crew of 4) and about 238 hours out of service per aircraft. It recommends compliance at next heavy maintenance, no later than 1 year after receipt.

WHAT TO CHECK BEFORE BUYING

Ask for log entries showing compliance with the fuel bulletin; previously modified aircraft should be re-inspected. Bond resistance limits: fuel pump 0.37 milliohms, FLCV 1.86 milliohms, access panels 0.37 milliohms, fuel lines 1.00 ohm. Also confirm manual and supplement status, including the Electrical System Upgrade supplement, which stays active until all planes are modified.

PERFORMANCE

Max Range Nm	3890
Max Cruise Speed Kt	300
Max Service Ceiling Ft	33000

SAFETY NOTES

- The bulletin cites a fire in a No. 2 main fuel tank, traced to a pump that was likely not electrically bonded and was not the correct part number.
- Tank entry needs purging to a fire-safe 20 percent lower explosion limit, with full-face respirators worn until the area is purged to 19.5 percent oxygen.
- Do not air-purge tanks if an electrical storm or wind above 15 knots is forecast.

AI-aggregated guide for the LOCKHEED C-130 Hercules · sources: CGTO 1C–130–1 FLIGHT MANUAL USCG SERIES (#100409) · SERVICE BULLETIN FUEL- SFAR 88- DRY BAY ZONAL INSPECTION (#102662) · generated 2026-10-21 · Reference only, not for flight. Check the original documents before relying on this guide.