

EUROCOPTER EC120B Model Guide

EUROCOPTER EC120B is a single-engine helicopter listed under Airbus Helicopters. Registry data for the EC120B family shows up to 5 passengers, up to 1700 kg MTOW, up to 124 kt cruise and up to 400 nm range. The library record says piston, but the registry says turboshaft and the operator checklists use turbine terms (Ng, T4, twist grip). Confirm engine type against the aircraft's papers.

KEY TAKEAWAYS

- Mandatory Eurocopter Alert SB 24A012 (April 2010) corrects EMER SW wiring on listed serial numbers. Ask for proof of compliance.
- Family-level maxima only: 5 passengers, 1700 kg MTOW, 124 kt cruise, 400 nm range, 20000 ft ceiling. Verify against this airframe's flight manual.
- If an inlet barrier filter (STC SR01191SE) is fitted, check that the D-seal inspection in FDC SB.FDC.ALL.0005 Rev A was done.
- If a camera or searchlight mount (STC SR 01302 LA) is fitted, check the 100-hour and 1000-hour inspection records.

SERVICE BULLETINS TO VERIFY

Eurocopter Alert SB 24A012 applies to helicopters with an EMER SW switch and serial numbers 1500, 1511 to 1630, 1632, 1634 and 1636. It is mandatory and is to become an EASA Airworthiness Directive. It calls for rewiring and a functional test, with a compliance entry in the helicopter documents. The FDC filter bulletin (October 22, 2010) is mandatory for earlier EC120B filter installs: inspect the seals before next flight.

SYSTEMS AND WARNINGS TO KNOW

Operator checklists (unofficial summaries; only the AFM is approved) cover the VEMD display, hydraulics, generator and battery warnings. FUEL warning: under 30 kg, about 15 min of flight time remaining. Engine oil above 110° C: set Vy and land as soon as practicable or possible. With both VEMD screens failed, the checklist limits IAS to 100 kts (-2kts/1000ft) and calls for a no-hover landing.

LOGBOOK AND GROUND-CARE CHECKS

The operator's checklist has crews record flight number, NG and NF cycles, failures, overlimits and any power check on the techlog. Check these entries for gaps. Overnight, the battery is disconnected in the rear compartment. The helicopter must be tied down if wind exceeds 50 kts or the ground is slippery.

PERFORMANCE

Family Max Range Nm	400
Family Max Cruise Speed Kt	124
Family Max Service Ceiling Ft	20000

SAFETY NOTES

- Before ASB 24A012 rewiring, EMER SW CUT-OFF plus GENE OFF let the starter-generator cut in again, so the smoke procedure did not isolate electrical power.
- Operator checklists are summaries. Only checks and procedures in the AFM are approved.
- Loss of tail-rotor thrust shows as nose-left yaw that right pedal cannot stop. Maintain Vy or higher in cruise.