

Beechcraft King Air 90 Model Guide

The Beechcraft King Air 90 is a twin-turboprop, pressurised, all-metal low-wing executive aircraft. It has been built since 1964 and seats 6 to 10. The family includes the B90, C90, C90A, C90GT, E90 and H90. The C90A is typically configured with 6-8 seats and two 550 hp engines. This guide covers the short-fuselage Beechcraft King Air 90 series.

KEY TAKEAWAYS

- Beechcraft King Air 90 family: up to 1390 nm range, 278 kt cruise and 35000 ft ceiling (family maxima, not one variant).
- Check the E90 and C90A weights: 10100 lb max takeoff, with early C90A serial numbers limited to 9650 lb.
- Ask for torque knee and wing spar inspection records; both are airworthiness directive items.
- G1000 retrofit costs about \$350,000, saves 100 lb or more, and is available for most C90 series.

VARIANTS, WEIGHTS AND FUEL

The C90A max takeoff weight is 9650 lb on s/n LJ-1063 to LJ-1137 and LJ-1146, and 10100 lb on later aircraft. The C90GT and C90GTi use PT6A-135A engines at 10100 lb, or 10545 lb with an STC. The E90 carries 392 US gal usable in the main tanks and 82 gal in the auxiliary tanks. Each baggage area is limited to 350 lb.

INSPECTIONS AND RECORDS

The CASA main landing gear torque knee AD (FAA AD 2002-01-10) requires an inspection within 100 hours after 18 April 2002, then every 1,000 hours or less. Cracked knees must be replaced. Replacement with the new part numbers ends the repetitive inspections. The wing front spar AD covers all models. It requires an inspection before 5 years from manufacture, then at intervals of 1 year or less.

AVIONICS UPGRADE

A Garmin G1000 STC conversion is available for most King Air C90 series airplanes, but not all. Check serial number eligibility with Garmin. It brings dual 10.4-inch PFDs and a 15-inch MFD. It removes the AC inverters and gives RVSM eligibility above 28,000 ft. Dash 135 engine conversions are approved for the retrofit.

SPECIFICATIONS

Engine Power Hp	550
Fuel Main Usable Gal	392
Fuel Aux Usable Gal	82
Baggage Fwd Lbs	350
Baggage Aft Lbs	350

PERFORMANCE

Max Crosswind Kts	25
Cruise Climb To 10000 Ft Kts	150

V-SPEEDS

C90a Vmca Kts	90
C90a Vx Kts	101
C90a Vy Kts	111
C90a Vref Kts	100
C90a Vmo Kts	208
E90 Vmca Kts	88
E90 Vy Kts	112
E90 Vyse Kts	110

WEIGHT & BALANCE

E90 Max Takeoff Weight Lbs	10100
C90a Early Max Takeoff Weight Lbs	9650
C90gt Stc Max Takeoff Weight Lbs	10545

SAFETY NOTES

- In at least four fatigue-crack cases, the main landing gear separated from the aircraft (torque knee AD background).
- A 1980-built King Air 90 (F90) landing gear collapsed after a motor bearing failed and a loose cover plate restricted the manual crank. Check both.
- Engine start: ITT limit is 1090°C. Starter limit is 40 seconds on, then 60 seconds off.