

BEECHCRAFT Baron 55 Model Guide

The BEECHCRAFT Baron 55 is a piston twin-engine airplane. The family covers the D55, D55A, D95A, E55, E55A and E95 variants. Family-level figures run up to 6 passengers, 188 kt cruise and 1100 nm range. This guide draws on the shop manual, the 100-hour inspection list and the parts catalog.

KEY TAKEAWAYS

- The BEECHCRAFT Baron 55 is a piston twin. Family figures are up to 188 kt cruise, 1100 nm range and a 21000 ft service ceiling.
- The shop manual covers the 55, A55, B55, C55, D55, E55 and 58. Check which serial range your airplane falls in.
- The Baron is not pressurized. The manual lists the pressurization chapter as not applicable.
- Budget for a thorough 100-hour inspection. It covers wing bolts, spar caps, engine mounts, cables and fuel cells.

SERIAL RANGES AND RECORDS

The shop manual splits the models by serial number. The 55 is TC-1 thru TC-190 and the D55 is TE-452 thru TE-767. The E55 is TE-768 and after. The 58 is TH-1 and after. Many procedures and parts depend on serial range, so match the serial number to the airplane's records and parts catalog.

STRUCTURE CHECKS

The 100-hour inspection includes the wing skin and structure, the wing spar cap for corrosion, and fuselage web cracks at the wing spar carry-through. Wing bolts are checked for torque at the first 100-hour inspection and after each reinstallation. Wing installation calls for magnetic particle inspection of the wing bolts, and the mounting nuts are replaced at each inspection interval.

ENGINES, GEAR AND SYSTEMS

The 100-hour list covers the following: - Engine mounts on some serial ranges, checked for cracks per Service Bulletin 2362. - Alternator rotor shaft bearings. - Exhaust stacks for thin walls. - Foam fuel strainer inserts, checked for brown foam per Service Bulletin 2109. - Landing gear gearbox oil level. The parts catalog shows a 6.50 x 8 6-ply main gear tire.

SPECIFICATIONS

Engine Type	piston
Family Max Mtow Kg	2200
Family Max Passengers	6

PERFORMANCE

Family Max Range Nm	1100
Family Max Cruise Speed Kt	188
Family Max Service Ceiling Ft	21000

SAFETY NOTES

- Replace flight control cables with more than 3 broken strands in any 3-foot length, or with any corrosion.
- Check the ignition switch. If the engine keeps running with the switch held at OFF, a magneto is hot or ungrounded and the switch must be replaced.
- After opening the emergency exit hatch, safety it with 0.020 inch copper wire.