

Beechcraft 33 Debonair Model Guide

The Beechcraft 33 Debonair is a single-engine piston, retractable-gear four-to-six-seat airplane built from 1960 to 1967. The factory data in the sources is for the Model C33, which has a 225 hp Continental IO-470-K fuel-injected engine and a 3050 lbs gross weight. Check the exact sub-model before relying on any figure.

KEY TAKEAWAYS

- Model C33 factory figures: 225 hp, 3050 lbs gross weight, 1780 lbs empty weight and 1270 lbs useful load.
- Fast for its class: 185 mph at 75% power at 7000 ft, and 195 mph high speed at sea level.
- Standard fuel is 49 gal usable. Optional wing cells give 80 gal and a 1270 mi range.
- Before buying, confirm compliance with the wing spar carry-thru service bulletin and the landing gear up-lock roller AD.

WHAT IT CARRIES

The Beechcraft 33 Debonair C33 has a 3050 lbs gross weight and a 1780 lbs empty weight, which leaves 1270 lbs useful load. With the standard fuel cells full, 948 lbs remains for people, baggage and equipment. Maximum baggage is 270 lbs. The baggage compartment is 16.5 cu. ft., or 22.4 cu. ft. with the utility shelf.

HOW IT PERFORMS (MODEL C33, FACTORY TESTS)

The Beechcraft 33 Debonair C33 cruises at 185 mph at 75% power at 7000 ft, 180 mph at 65% power at 11,000 ft, and 154 mph at 50% power at 10,000 ft. Stall speed in the landing configuration is 60 mph. Takeoff at sea level with 20 degree flaps needs a 982 ft ground run, or 1288 ft over 50 ft. Landing with 30 degree flaps needs a 643 ft ground roll, or 1298 ft over 50 ft. The factory says individual airplanes will vary.

FUEL AND RANGE

Standard wing cells hold 49 gal usable, and optional cells hold 80 gal. Factory range includes a 45-minute reserve: 650 mi on 49 gal, 845 mi on 60 gal and 1270 mi on 80 gal, all at 50% power. A 1972 owner's manual supplement cut usable fuel in the 22 gallon main tank system, reducing full-fuel range by about 13%. Ask which fuel figures the airplane's own manual uses.

SPECIFICATIONS

Engine Power Hp	225
Max Gross Weight Lbs	3050
Empty Weight Lbs	1780
Useful Load Lbs	1270
Max Baggage Lbs	270
Fuel Standard Usable Gal	49
Fuel Optional Usable Gal	80
Oil Capacity Qt	10

PERFORMANCE

Rate Of Climb Fpm	930
Service Ceiling Ft	17800
Takeoff Ground Run Ft	982
Takeoff Over 50ft Ft	1288
Landing Ground Roll Ft	643
Landing Over 50ft Ft	1298

WEIGHT & BALANCE

Max Takeoff Weight Lbs	3050
Empty Weight Lbs	1780
Useful Load Lbs	1270
Max Baggage Lbs	270
Payload With Standard Fuel Lbs	948

SAFETY NOTES

- Mandatory SB 53-2360 covers cracks in the wing forward spar carry-thru frames. It requires re-inspection every 500 flight hours, and any crack must be repaired with a P/N 36-4004 kit.
- The up-lock roller AD (AD/BEECH 33/45) requires replacing non-greasible rollers. It also requires lubricating the mechanism about every 100 hours time in service, to reduce gear-up landings.
- Use only genuine or approved Beechcraft parts. The manuals warn that parts of unknown service history may hide damage.