

BEECHCRAFT F33 BONANZA Model Guide

The BEECHCRAFT F33 BONANZA is a piston single in the Beechcraft 33 family. The only variant-specific data here is one pilot's IFR checklist. It gives a 3400 lb maximum takeoff weight, 74 gal of fuel and a set of operating speeds. Treat the figures as a starting point and confirm them against the official handbook before buying.

KEY TAKEAWAYS

- Checklist gives 3400 lb max takeoff weight and 2310 lb empty weight, so check the useful load.
- Fuel capacity is 74 gal (280 L). Planned burn is about 15 gal/h in cruise, so allow for over 4 hours 45 min.
- Key speeds: rotate 71 kt, best angle 77 kt, best rate 96 kt, best glide 105 kt.
- The family reaches up to 161 kt cruise and 540 nm range, but these are not F33-specific figures.

WEIGHTS AND FUEL

The checklist lists a maximum takeoff weight of 3400 lb, an empty weight of 2310 lb and 74 gal of fuel (280 L). It calls for a mass and balance check and secured baggage before every flight. Family-wide, the 33 series carries up to 5 people. Confirm the actual empty weight of the aircraft you are buying.

POWER SETTINGS AND FUEL BURN

Takeoff power is 29.6 MP at 2700 RPM. Climb is 25 MP at 2500 RPM, burning about 20 gal/h. Cruise is listed as 22 MP at 2300 RPM, burning 14-15 gal/h. Run-up is at 1700 RPM, with a magneto drop of 175 RPM and a maximum difference of 50 RPM. Idle should read 500-700 RPM.

WHAT TO CHECK ON INSPECTION

Check oil level (the checklist gives 8-12), the gear selector and emergency gear handle, and that three green gear lights show. Test the alternate air, alternate static, cowl flaps, suction, ammeter and oil pressure. Test the autopilot, gyros and slaved horizon if you plan to fly IFR.

SPECIFICATIONS

Fuel Capacity Gal	74
-------------------	----

PERFORMANCE

Climb Fuel Flow Gph	20
Cruise Fuel Flow Gph	15
Max Crosswind Kts	17

V-SPEEDS

Vr Kts	71
Vx Kts	77
Vy Kts	96
Va Kts	134
Vfe Kts	150
Best Glide Kts	105
Final Approach Kts	80
Landing Kts	70

WEIGHT & BALANCE

Max Takeoff Weight Lbs	3400
Empty Weight Lbs	2310

SAFETY NOTES

- Engine power loss: fuel pump ON, fuel selector to the other tank, mixture rich, alternate air ON, then restart. Best glide is 105 kt.
- The checklist gives flap and gear limits of 154 KIAS and a VFE of 150 kt. These conflict, so verify them against the official handbook.
- Maximum crosswind in the checklist is 17 kt. It also says to add to the approach speed in strong headwinds.