

BEEHCRAFT A23-19 Musketeer Sport III Model Guide

The BEEHCRAFT A23-19 Musketeer Sport III is a single-engine piston airplane. Its handbook approves it for 4 place in the Normal category and 2 place in the Utility category. It has a 150 hp Lycoming O-320 engine and a fixed-pitch two-blade propeller. The handbook also covers the 19A, which has different weights and an acrobatic option.

KEY TAKEAWAYS

- Engine is an Avco Lycoming O-320-E2B, E2C or E3D rated at 150 hp, with a 74 in fixed-pitch Sensenich propeller.
- A23-19 max takeoff weight is 2200 lbs Normal and 2030 lbs Utility. Baggage limit is 340 lbs.
- Never-exceed speed is 152 kts CAS. Flaps must stay retracted above 96 kts CAS.
- Usable fuel is 52.2 gal after S.I. 0624-281. Before that it is 58.8 gal.

ENGINE, FUEL AND OIL

The O-320 is rated at 150 hp, with takeoff and max continuous power at full throttle or 2700 rpm, whichever comes first. Approved fuel is 80/87 minimum, 100LL or 100. Alcor TCP additive is listed. Oil capacity is 8 quarts. Oil pressure limits are 25 to 100 psi.

WEIGHTS AND LOADING

A23-19 Normal category: ramp 2205 lbs, takeoff and landing 2200 lbs. The 19A (or A23-19 with kit 23-5003) allows 2250 lbs takeoff. Utility category is 2030 lbs, 2 place. Baggage compartment is 28.5 cu ft, 340 lbs max. Cabin door is 36 in wide by 38 in high.

OPERATING LIMITS

Approved for VFR and IFR, day and night, with a minimum crew of one pilot. Maximum slip duration is 30 seconds. Normal category allows no acrobatic maneuvers. Only the 19A is approved for acrobatic category, in 2 place at 2030 lbs, with a separate flight manual supplement.

SPECIFICATIONS

Engine Power Hp	150
Propeller Diameter In	74
Total Fuel Capacity Gal	59.8
Usable Fuel After Si 0624 281 Gal	52.2
Usable Fuel Before Si 0624 281 Gal	58.8
Max Baggage Weight Lbs	340
Max Oil Temp F	245
Min Oil Pressure Psi	25

V-SPEEDS

Vne Kts	152
Vno Kts	133
Va Kts	116
Vfe Kts	96

WEIGHT & BALANCE

Max Ramp Weight Lbs	2205
Max Takeoff Weight Lbs	2200
Max Landing Weight Lbs	2200
Utility Max Takeoff Weight Lbs	2030
Max Baggage Weight Lbs	340
Cg Forward Limit At 1800 Lbs Or Less Inches	107.8
Cg Forward Limit At 2200 Lbs Inches	112
Cg Aft Limit Inches	118.3

SAFETY NOTES

- Fuel selector placard (S.B. 2670): position the selector in the detents only. There is no fuel flow between detents.
- Stay in the yellow arc (133 to 152 kts CAS) only in smooth air. Do not make full or abrupt control movements above 116 kts CAS.
- Keep the handbook and all required STC supplements in the airplane. The pilot must keep it current.