GRUMMAN/AMERICAN GENERAL AA5B TIGER Model Guide

The GRUMMAN/AMERICAN GENERAL AA5B TIGER is a single-engine piston aircraft with a sliding canopy. It has a 180 hp Lycoming O-360-A4K and a fixed-pitch McCauley propeller. The club handling notes give a normal-category maximum weight of 2400 lb, up to 4 occupants and a 132 kt cruise at 75% power. They are a guide only, so check the flight manual.

KEY TAKEAWAYS

- Lycoming O-360-A4K, 180 hp at 2700 RPM, with a fixed-pitch McCauley propeller. Maximum 4 occupants.
- Club notes list 132 kt at 75% power and 122 kt at 65% power (2000 ft), burning 40.0 and 37.5 litres/hour.
- Check aileron skin contour. SI 06-01 can end repetitive 100-hour AD 79-22-04 inspections if both ailerons are in contour.
- Hold the nose wheel off as long as possible on landing to avoid prop damage or porpoising. If porpoising starts, go around.

FUEL, OIL AND SYSTEMS

Two tanks hold 199.1 litres, of which 193 are useable. Fuel is 100/130 or 100LL. An engine-driven pump is backed by an electric auxiliary pump, and flight with that pump unserviceable is prohibited. Oil capacity is 7.57 litres. The vacuum suction range is 4.6 to 5.4 in Hg. The electrical system is a 14 volt, 60 amp alternator.

AILERON AD 79-22-04 AND SI 06-01

SI 06-01 (1 August 2006) covers all AA-5, AA-5A and AA-5B; AG-5B is not affected. Aileron oscillation is traced to skin contour deviation across the aft third of the aileron chord. Confirm Service Bulletin 163 and Service Kit 144 are done, then check contour with a template at 1 inch intervals. In-contour ailerons end repetitive checks. Out-of-contour ailerons need inspection every 100 hours. Look for a log book entry.

LIMITS AND HANDLING

VNE is 172 kt, VNO 142 kt, VA 113 kt and flap extension 103 kt. Maximum crosswind is 16 kt. Spins are prohibited. The canopy must be closed and locked above 113 kt. Avoid continuous operation between 1850 and 2250 RPM. Approach is flown at 72 kt reducing to 69 kt, and the nose gear free-castors for ground handling.

SPECIFICATIONS

Engine Power Hp	180
Max Continuous Rpm	2700
Max Occupants	4

PERFORMANCE

Cruise Speed 75pct Kts	132
Cruise Speed 65pct Kts	122
Best Rate Of Climb Fpm	850
Service Ceiling Ft	13800
Stall Flaps Up Kts	56
Stall Flaps Full Kts	53

V-SPEEDS

Vne Kts	172
Vno Kts	142
Va Kts	113
Vfe Kts	103
Best Angle Climb Kts	70
Best Rate Climb Kts	90
Stall Flaps Up Kts	56
Stall Flaps Full Kts	53

WEIGHT & BALANCE

Max Takeoff Weight Normal Lbs	2400
Max Takeoff Weight Utility Lbs	2050
Max Baggage Lbs	120

SAFETY NOTES

- Spins are prohibited. Normal manoeuvres only, with bank angle not above 60 degrees.
- Engine failure after take-off: do not turn back to the field. Land straight ahead or within 30 degrees either side.
- Releasing the flap switch abruptly can snap it through neutral into the retract position.

AI-aggregated guide for the GRUMMAN/AMERICAN GENERAL AA5B TIGER · sources: Grumman Tiger AA-5B Handling Notes (#101490) · SERVICE INSTRUCTION SI 06-01 (#101364) · generated 2026-10-21 · Reference only, not for flight. Check the original documents before relying on this guide.