GULFSTREAM G600 Model Guide

The GULFSTREAM G600 (registry variant GVII-G600) is a twin-engine turbofan jet. The registry has no range, speed, seat or weight figures for it. This guide uses the FAA-approved Airplane Flight Manual (Revision 3, March 03, 2020) for operating limits. It uses a maintenance manual fuel boost pump task for service points.

KEY TAKEAWAYS

- Maximum operating altitude is 51,000 feet, or 48,000 feet with a single air conditioning pack operating.
- Landing crosswind limit is 22 knots including gusts. Maximum tailwind for takeoff and landing is 10 knots.
- Takeoff is prohibited unless flight controls are in normal mode. Degraded modes cap speed at 285 KCAS / 0.90M.
- Approved runway slopes are +2% uphill and -2% downhill, on smooth or grooved hard surfaces.

OPERATING LIMITS

Maximum operating altitude is 51,000 feet. With a rudder failure or jam it is 35,000 feet. With gear extended it is 20,000 feet, and with flaps 10° or 20° it is 25,000 feet. Static takeoff crosswind limit is 30 knots. Tire groundspeed limit is 195 knots.

AIRSPEED LIMITS

Flaps extended speed (VFE) is 250 KCAS at 10°, 220 KCAS at 20° and 180 KCAS flaps down. Gear extended (VLE) is 250 KCAS and gear operation (VLO) is 225 KCAS. Maneuvering speed is 206 KCAS. Turbulence penetration is 270 KCAS / 0.85M at or above 10,000 feet, and 240 KCAS below.

MAINTENANCE AND INSPECTION

Fuel boost pumps are on the rear spar in the main wheel wells. Main pumps are inboard and alternate pumps outboard. Pump work relates to a fuel tank ignition-source limitation (CDCCL), so use approved hardware and parts. Priming needs a minimum fuel load of 16,500 / 8250 lbs for each side. Bolt torque is 40-50 inch-pounds, and bond resistance must be no more than 0.0025 ohms.

PERFORMANCE

Max Operating Altitude Ft	51000
Max Altitude Single Pack Ft	48000
Max Altitude Rudder Failure Ft	35000
Max Altitude Flaps 10 20 Ft	25000
Max Altitude Gear Extended Ft	20000
Max Tailwind Kt	10
Max Landing Crosswind Kt	22
Max Static Takeoff Crosswind Kt	30

V-SPEEDS

Vmca Flaps 10 Kts	108
Vmca Flaps 20 Kts	104
Vmcl Kts	101
Vmcg Flaps 10 Kts	105
Vmcg Flaps 20 Kts	112
Va Kts	206
Vfe Flaps 10 Kts	250
Vfe Flaps 20 Kts	220

SAFETY NOTES

- Do not attempt a go-around with less than 650 pounds of fuel indicated in either fuel tank.
- Flight into known icing is prohibited when the flight control law mode is other than normal.
- With flaps 10° or less, tailwind for landing must be zero. Brake energy above 125.7 MFP may cause brake failure and fire.

AI-aggregated guide for the GULFSTREAM G600 · sources: AIRPLANE FLIGHT MANUAL (#102838) · 28-26-04 Fuel Boost Pump - Removal / Installation (#101674) · generated 2026-11-24 · Reference only, not for flight. Check the original documents before relying on this guide.