Gulfstream Aerospace G550 Model Guide

The Gulfstream Aerospace G550 is a large jet, listed in the registry under the Gulfstream 1159 family (G-IV, GV and GV-SP variants). The only airplane-specific documents supplied are an FAA-approved flight manual supplement on APU limits and the hydraulic systems chapter of the operating manual. No G550 price, payload or performance figures were supplied.

KEY TAKEAWAYS

- The family is listed at up to 6500 nm range and up to 51000 ft service ceiling; these are family maxima, not G550 figures.
- The G550 has independent left and right hydraulic systems, and the left system has several backup pressure sources.
- A flight manual supplement restricts APU use on GV-SP (G550/G500) airplanes with improperly applied APU enclosure sealant.
- Check the airframe for the APU sealant issue and the hydraulic fluid type and servicing history before buying.

HYDRAULIC SYSTEM LAYOUT

Left and right systems are each driven by an engine pump and have no common fluid point. Elevators, ailerons, rudder, spoilers and speedbrakes use both systems. Gear, brakes, nose wheel steering, flaps and ground spoilers depend on the left system. Backups are the AUX electric pump, the PTU, accumulators and a nitrogen bottle for gear.

SERVICING AND CONDITION CHECKS

Approved fluids are Type IV phosphate-ester: Hy-Jet IV, Hy-Jet IV-A, Skydrol LD-4 and Skydrol 500B-4. Left system capacity is 20.6 gal, with 5.7 gal in the reservoir. The service panel is under the tail. Ask for fluid records, leak history, and AUX pump and PTU test results.

APU SUPPLEMENT (GV-SP)

The supplement applies to GV-SP (G550/G500) airplanes with sealant improperly applied to the APU enclosure, serial number 5001 and subsequent. It prohibits unattended ground APU operation and restricts in-flight use. Ask the seller whether the airplane is affected and whether the sealant was corrected.

SPECIFICATIONS

Left Hydraulic System Capacity Gal	20.6
Left Hydraulic Reservoir Gal	5.7
Left Reservoir Aux Reserve Gal	2
Hydraulic System Pressure Psi	3000

PERFORMANCE

Family Max Range Nm	6500
Family Max Cruise Speed Kts	459
Family Max Service Ceiling Ft	51000

SAFETY NOTES

- Supplement: unattended APU ground operation is prohibited on affected airplanes.
- Supplement: in-flight APU use is prohibited except after engine or generator failure, or for bleeds-off takeoff up to 5000 ft AGL.
- Supplement: dispatch is not permitted with any engine generator inoperative.

AI-aggregated guide for the Gulfstream Aerospace G550 · sources: G550 I G500 Airplane Flight Manual Supplement No. G550-2016-01 (#100036) · 2A-29-00 - Jett Air X (#101827) · generated 2026-10-21 ·
Reference only, not for flight. Check the original documents before relying on this guide.