STINSON 108 Model Guide

The STINSON 108 is a four-place, high-wing cabin monoplane built by the Stinson Division of Consolidated Vultee. It uses a horizontally opposed, six-cylinder, air-cooled Franklin engine. It has wing flaps, slotted wings, brakes, a steerable tail wheel and dual controls. The series runs from the 108 to the 108-3.

KEY TAKEAWAYS

- Four-place, high-wing, Franklin six-cylinder, tailwheel airplane with flaps, slotted wings and dual controls.
- Manual lists 150 hp for the 108 and 108-1, and 165 hp for the 108-2 and 108-3.
- Gross weight rises from 2150 lb (108) to 2230 lb (108-1, -2) and 2400 lb (108-3).
- Service bulletins and letters cover fuel, rudder cable, stabilizer and spar items. Check which are complied with.

VARIANTS AND ENGINES

The maintenance manual's table gives 150 hp and 2150 lb gross for the 108. The 108-1 has 150 hp and 2230 lb. The 108-2 has 165 hp and 2230 lb. The 108-3 has 165 hp and 2400 lb. Check the data plate against these figures, because the manual does not state seat counts or years.

ENGINE CONVERSIONS

Service Bulletin 269 (June 11, 1964) covers replacing the original Franklin 6A4-165-B3 with a 180 HP Franklin 6A335-B1. It applies to 108-3 airplanes, serial 108-3501 and up. It needs a new engine mount, propeller governor, cowls and gauges, plus a reweigh and a Repair and Alteration form. Letters also cover a Franklin 165 install on the 108 and 108-1, and converting a 108 to a 108-1 or 108-2.

WHAT TO INSPECT

The Univair bulletin index lists known problem areas: fuel seepage into the cabin, fuel selector valve indexing, rudder cable inspection and misalignment, stabilizer leading edge attachment, cabin sliding window, oleo shock plunger rework, battery and vent tube, wiring harness protection and metal spar splice kits. The manual has daily, weekly (25 hour) and 100 hour inspections.

SPECIFICATIONS

Engine Power 108 Hp	150
Engine Power 108 1 Hp	150
Engine Power 108 2 Hp	165
Engine Power 108 3 Hp	165
Alt Engine Power Sb269 Hp	180

PERFORMANCE

Family Max Range Nm	500
Family Max Cruise Speed Kt	105
Family Max Service Ceiling Ft	14000

WEIGHT & BALANCE

Gross Weight 108 Lbs	2150
Gross Weight 108 1 Lbs	2230
Gross Weight 108 2 Lbs	2230
Gross Weight 108 3 Lbs	2400

SAFETY NOTES

- Confirm the fuel seepage into cabin and fuel selector valve indexing bulletins were complied with before flying.
- Have the rudder cable and stabilizer leading edge attachment inspections done and logged.
- Weight empty is on the airplane's own weight and balance sheets. After any engine swap, require a current reweigh and log entry.

AI-aggregated guide for the STINSON 108 · sources: Stinson 108 Series Maintenance Manual (#100810) · Stinson Service Bulletins and Letters (#101362) · Service Bulletin #269 (#101753) · generated 2026-10-18 · Reference only, not for flight. Check the original documents before relying on this guide.