

CESSNA 180H Model Guide

The CESSNA 180H is a single-engine piston Cessna 180 variant. The documents supplied cover two things: float operation with Aerocet 3500/3500L floats under a supplemental flight manual, and a Cleveland wheel and brake conversion kit. The 180 family is listed at up to 5 passengers, up to 141 kt cruise and up to 890 nm range. These are family maxima, not 180H figures.

KEY TAKEAWAYS

- Floatplane limits (Aerocet 3500/3500L): 3190 lb maximum ramp, takeoff and landing weight, normal category only.
- Float installations: pump both floats before every flight, because water in them can shift the CG.
- Cleveland brake and wheel kit 199-60 lists the 180H as eligible under STC SA62GL.
- Float baggage is limited to 100 lb in each float; check the CG whenever you load the airplane.

FLOAT OPERATION (AEROCET 3500/3500L)

The supplement applies to 180G and 180H airplanes with the Kenmore Air Harbor STC and Aerocet floats. It must be carried in the airplane. Stall speed at 3190 lb is 57.9 KCAS flaps up and 53.4 KCAS flaps down, and altitude loss in stall recovery may reach 200 feet. Takeoff uses 20 degrees of flaps, water rudders up and the wheel held far aft at first.

WEIGHT AND BALANCE ON FLOATS

Maximum ramp, takeoff and landing weight is 3190 lb. The CG range is +40.0 to +45.0 inches aft of datum at 3190 lb, and +36.0 to +45.0 inches at 2400 lb or less, with a straight-line variation between the two points. The owner and pilot must make sure the airplane is loaded properly. Use the loading chart in the supplement.

CLEVELAND WHEELS AND BRAKES UPGRADE

Kit 199-60 fits the 180H under STC SA62GL. It has two 6.00-6 tube-type magnesium wheels and two two-piston brakes. Added weight is 9.75 lb per gear leg (wheel 6.75 lb, brake 3.00 lb). Brake hydraulic fittings, brake/axle bolts and cotter pins are not in the kit. Update the weight and balance records and file a Form 337 after installation.

V-SPEEDS

Vne Kts	143
Vno Kts	113
Va Kts	113
Vfe Kts	96
Stall Flaps Up Kts	57.9
Stall Flaps Down Kts	53.4

WEIGHT & BALANCE

Max Ramp Weight Lbs	3190
Max Takeoff Weight Lbs	3190
Max Landing Weight Lbs	3190
Float Baggage Max Lbs	100
Cg Forward Limit At Max Weight Inches	40
Cg Forward Limit At 2400 Lbs Inches	36
Cg Aft Limit Inches	45

SAFETY NOTES

- Water rudders must be up for takeoff and landing, and down only for water taxiing. Check the freedom of movement and security of the water rudders before starting the engine.
- After a float damage flood, shift weight (people and baggage) away from the damaged side to balance the airplane over the buoyant compartments.
- Brake lining needs conditioning after new linings are installed. Light brake use can wear off the glaze and reduce braking performance.