

AVIAT HUSKY A-1 Model Guide

The AVIAT HUSKY A-1 is a single-engine piston, tailwheel-type utility airplane, originally built by Christen Industries and later by Aviat. The documents show Lycoming O-360-C1G or O-360-A1P power, an 1800 lb maximum gross weight, and optional wheels or skis. This guide draws only on service bulletins, an ICA and one airplane's weight and balance report.

KEY TAKEAWAYS

- Maximum gross weight is 1800 lbs. The example airplane (N2881P) has 563.7 lbs useful load on wheels and 553.5 lbs on skis.
- A gross weight increase to 1910 lbs is possible only on listed serial numbers, through Service Bulletin 14 and a Form 337.
- Check the logbooks for compliance with Service Bulletin 25 (intake box and control cable) and Service Bulletin 11 (elevator horns).
- Many modifications appear: remote oil filter, Hartzell propeller STC, aft stowage compartment. Verify paperwork for each.

WEIGHT, LOADING AND GROSS WEIGHT OPTIONS

The example airplane, N2881P serial 1011, shows 1236.3 lbs empty weight on wheels and 1246.5 lbs on skis. Maximum gross is 1800 lbs. SB 14 allows 1910 lbs Normal Category on listed serials only. It requires stabilizer strut kit A-1-538, ski gear and the A-1B tailspring. It adds 8.72 lbs. Operation up to 2100 lbs needs a Special Airworthiness Certificate, Restricted.

ENGINE, PROPELLER AND INSTALLED OPTIONS

Documents cover Lycoming O-360-C1G and O-360-A1P engines. A remote-mount oil filter kit (AFC-K005) is approved for these. An STC Hartzell HC-C2YR-1N/NG8301-3 two-blade constant-speed propeller (80.0 inch maximum diameter) requires 8.50 X 6 or larger tires. The SB 16 aft stowage compartment (kit A-1-571) holds up to 30 lbs of baggage and weighs 10.0 lbs.

SERVICE BULLETINS TO VERIFY

SB 25 (Rev A, 17 January 2010) is mandatory. It requires inspecting the engine intake box and control cable, because worn parts can fray, break and be ingested by the engine. Inspection is estimated at 2 hours. SB 11 Rev A (24 Sep 2021) requires an elevator horn inspection at each annual and a check that the stabilizers have no dihedral rigging.

SPECIFICATIONS

Propeller Diameter Max Inches	80
Aft Baggage Max Lbs	30
Aft Stowage Installation Weight Lbs	10
Normal Category Increased Gross Weight Lbs	1910

WEIGHT & BALANCE

Max Gross Weight Lbs	1800
Empty Weight Wheels Lbs	1236.3
Useful Load Wheels Lbs	563.7
Empty Weight Skis Lbs	1246.5
Useful Load Skis Lbs	553.5
Empty Cg Wheels Inches	73.04
Empty Cg Skis Inches	72.75

SAFETY NOTES

- SB 25: worn intake box or control cable parts can lead to engine failure if the engine ingests them. Confirm inspection or replacement and the compliance letter.
- SB 11: elevator horn cracks can grow to failure. Look for annual inspection entries and confirm the horizontal stabilizers are not rigged with dihedral.
- Flight between 1910 and 2100 lbs needs a Special Airworthiness Certificate, Restricted, plus extra inspections and flight envelope restrictions.