

Fuel Capacity 44 gallons (+42) (One 22 gallon tank in each wing, tanks interconnected.)
Usable capacity:
S/N 1003 and 1004 - 30 gallons
S/N 1034, 1037, 1038, 1040, 1041, 1043, 1044, 1046, 1047, 1050B and up
-- 40 gallons
See NOTE 1 for data on unusable fuel.

Oil Capacity S/N 1003 and 1004 - 9 gallons (+75), 8 gallons usable
S/N 1034, 1037, 1038, 1040, 1041, 1043, 1044, 1046, 1047, 1050, 1050B, and up:
-- 10.9 gallons (-10.6), 9.9 gallons usable.

Control Surface Movements

Elevator	Up 24°	Down 17°
Elevator Tab	Up 14°	Down 23°
Rudder	Left 17°	Right 17°
Aileron	Up 22°	Down 18°

Serial Numbers Eligible 1003, 1004, 1034, 1037, 1038, 1040, 1041, 1043, 1044, 1046, 1047, 1050B, and up.

II. - Model S-2C, 1 PCLM (Restricted Agricultural Category only), Approved 12 May 1961

Engine Pratt & Whitney R-985 AN-1 or AN-3 or AN14B
One 4½ and 9th order crankshaft damper

Fuel 87 minimum grade aviation gasoline

Engine Limits For all operations, 2300 rpm (450 hp)
For R-985 AN-1 and AN-3 engines, manifold pressure 37.5 in Hg. at sea level, 37.0 in. Hg. at 1500 ft. alt. For R-985 AN14B engine, manifold pressure 36.5 in Hg. at sea level, 35.5 in Hg. at 3500 ft. alt.
Straight line variation between points given.

Propeller and Propeller Limits Hamilton Standard, 2-position, 2D30 hub, 6101-12 blades (See NOTE 5)
Diameter: 108 in. max., 106 in. min.
Pitch settings: 12° low and 15° high at 42 in. sta.

Airspeed Limits

V _m (Maneuvering)	117 mph (102 K) CAS
V _{ne} (Never exceed)	148 mph (128 K) CAS

C. G. Range

S/N 1080C through 1137C:	(+23.6) to (+27.8)
S/N 1138C through 1166C:	(+22.0) to (+25.8)
	(See NOTE 4).
S/N 1167C through 1189C:	(+22.1) to (+26.6)
	(See NOTE 4).
S/N 1190C and up:	(+25.1) to (+29.1)

Empty Weight C.G. Range None

Datum Wing leading edge

Leveling Means Lower longeron below seat

Maximum Weight S/N 1080C through 1189C - 3460 lb.
S/N 1190C and up - 4400 lbs.

Number of Seats 1 (+89.0)

Maximum Hopper Capacity 1000 lb. (+31.0)

<u>Datum</u>	Wing leading edge
<u>Leveling Means</u>	Top of lower longeron below cockpit
<u>Maximum Weight</u>	<u>S/N 1118C, 1122C, 600-1123C through 600-1189C:</u> 3600 lb. <u>S/N 600-1190C through 600-1285C:</u> 4400 lb. (See NOTES 7 & 8) <u>S/N 600-1286C and up:</u> 4800 lb. (See NOTE 8)
<u>Number of Seats</u>	1 (+89.0)
<u>Maximum Hopper Capacity</u>	1000 lb. (+31.0)
<u>Fuel Capacity</u>	<u>S/N 1080C through 600-1253C:</u> 66 gallon (+38.5) (53 gallon usable capacity, one 33 gallon tank in each wing, tanks interconnected.) See NOTE 1 for data on unusable fuel. <u>S/N 600-1254C and up:</u> 109 gallons (+38.5) (100 gallons usable capacity, one 54.5 gallon tank in each wing, tanks interconnected). See NOTE 1 for data on unusable fuel.
<u>Oil Capacity</u>	10.9 gallons (-9.5) (9.9 gallons usable)
<u>Control Surface Movements</u>	<u>S/N 1118C, 1122C, 600-1123 through 600-1136C:</u> Elevator Up 28° Down 17° Elevator Tab Up 15° Down 20° Rudder Left 17° Right 17° Aileron Up 21° Down 17° <u>S/N 600-1137C through 600-1154C:</u> (See NOTE 4) Elevator Up 28° Down 18° Elevator Tab Up 10° Down 19° Rudder Left 24° Right 24° Aileron Up 21° Down 17° <u>S/N 600-1155C and up:</u> Elevator Up 22° Down 17° Elevator Tab Up 12° Down 18° Rudder Left 24° Right 24° Aileron Up 21° Down 17°
<u>Serial Numbers Eligible</u>	1118C, 1122C, 600-1123C, and up

DATA PERTINENT TO ALL MODELS

<u>Certification Basis</u>	CAR 8.10(a)(1) effective 11 October 1950 and CAM 8, Appendix B, as amended 19 March 1957. Restricted Type Certificate No. 2A7 issued 29 July 1958 Date of application for Type Certificate 25 October 1956
<u>Production Basis</u>	Production Certificate 506.
<u>Equipment</u>	The basic required equipment as prescribed in the applicable airworthiness regulations (see Certification Basis and CAM 8, Appendix B.51) must be installed in the aircraft for certification. In addition, the equipment listed below is required:

Model S-2C S/N 1138C and up and Model 600 S-2C (All Serial Numbers)

- (a) Operative pre-stall warning indicator Safe Flight Instrument Corporation lift detector No. 164, 6 volt. (Dry batteries Eveready #1461 powering this unit must be dated and replaced every four months.)
11 lb. (+86.5)
- (b) S/N 1137C through 1155C require installation of aileron centering springs per Snow Drawing #751.

NOTE 1. Current weight and balance report including list of equipment included in certificated empty weight and loading instructions when necessary, must be provided for each aircraft at the time of original certification. The certificated empty weight and the corresponding center of gravity location must include the following unusable fuel:

Model S-2B: S/N 1003 and 1004 - 84 lb. at (+42)
S/N 1034, 1037, 1038, 1040, 1041, 1043, 1044, 1046, 1047 and 1050B and up - 24 lb. at (+42)

Model S-2C and 600 S-2C:
S/N 1080C through 1253C - 78 lb. at (+38.5)
S/N 1254C and up - 54 lb. at (+38.5)

NOTE 2. The following placards must be installed:

- (a) In clear view of the pilot:
All Models - "Fuel gauge calibrated at ¼ tank increments.
Usable tank capacity:
Model S-2B S/N 1003, 1004 - 15 gallons each tank
S/N 1034, 1037, 1038, 1040, 1041, 1043, 1044, 1046, 1047 and 1050B and up
-- 20 gallons each tank
Models S-2C and 600S-2C:
S/N 1080C through 1253C - 26.5 gallons each tank
S/N 1254C and up - 50.0 gallons each tank:

"This airplane must be operated in accordance with the following limitations:

Maximum gross weight: <u>Model S-2B</u> -	3460 lb.
<u>Model S-2C:</u>	
S/N 1080C through 1189C	3460 lb.
S/N 1190C and up -	4400 lb.
<u>Model 600 S-2C:</u>	
S/N 1118C, 1122C, 600-1123C through 600-1189C	3600 lb.
S/N 600-1190C through 600-1285C	4400 lb.
S/N 600-1286C and up	4800 lb.

All Models: No acrobatic maneuvers including spins authorized.
Never exceed speed (Vne):
Model S-2B 137 mph CAS
Model S-2C, 600 S-2C 148 mph CAS"

Model S-2C S/N: 1138C and up and Model 600 S0-2C all S/N's: "Stall warning. Switch must be on in flight. Change battery every four months to dated Eveready 6 volt No. 1461. Mark date battery changed on battery. Fuse and spare located in box." "Stall warning light. Test light daily before flight by lifting indicator until light comes on."

"Sulphur dusting is prohibited unless special fire prevention measures have been incorporated in the aircraft."

- (b) On hopper for all models:
"Maximum hopper capacity 1000 lb."

- (c) Near carburetor heat control knob:
Models S-2B and S-2C - "For maximum carburetor heat place propeller in high pitch and pull carburetor heat control knob."

- (d) Adjacent to fuel tank filler necks - all models:

FUEL(*) U.S. GAL. MIN. OCTANE 87
FUEL TANKS ARE INTERCONNECTED ALLOW SUFFICIENT TIME FOR FUEL LEVER TO EQUALIZE BEFORE TOP-OFF OF TANKS. NO AROMATIC FUEL.

* (See "Fuel Capacity" item)

- (e) Adjacent to oil filler cap - all models:

OIL TANK
(*) GAL. CAP. * (See "Oil Capacity" item)

- (f) Near Tachometer:
Model 600-S-2C - "Avoid continuous ground operations between 1280 and 1800 rpm."

- NOTE 3. In addition to the operating limitations set forth in this data sheet, a list of operating limitations as issued by the FAA representative must contain the area operating limitations, economic operating limitations and passenger limitations as prescribed in CAR 8.

- NOTE 4. Model S-2C, S/N 1138C through 1191C, and Model 600 S-2C, S/N 600-1137C through 600-1189C, have a modified wing per Snow Drawing #247. Model S-2C, S/N 1138C through 1166C require installation of Vultee BT-13 ring cowling, P/N 74-34019 and North American propeller spinner, P/N 168-44002 to meet this c.g. range.

Model 600 S-2C, A/N 600-1137C through 600-1154C require installation of North American propeller spinner, P/N 168-44002.

- NOTE 5. Model S-2C, S/N 1167C and up have a modified horizontal tail per Snow Drawing 5-4016 and an optional constant speed propeller installation per Snow Drawing 5-6112.

- NOTE 6. Model 600 S-2C, S/N 600-1155C and up have a modified horizontal tail per Snow Drawing 5-4016.

- NOTE 7. Models S-2C and 600 S-2C from S/N 1190C through 1253C have modified wing per Snow Drawings 5-2090, Rev. D, 5-2092, Rev. A, and 5-2081, Rev. C. allowing a g.w. increase to 4400 lb.

- NOTE 8. Models S-2C and 600 S-2C from S/N 1254C and up have a modified wing installation per Snow Drawing 20217.

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