"Pietenpol Sky Scout"

FAA Reg. # N9432
Wing Span: 27Ft. 3 In.

Weight: 810#
6 Volt Battery w/positive ground

Engine: 4 Cylinder, 201 CID, 40 HP
Maximum Speed: 100MPH.

Fuselage: Sitka Spruce
Passengers: 1

Designed by: Bernard H. Pietenpol
Cost new: $10,000

Assembly: Home Built

Bernard H. Pietenpol had designed the airplane with a purpose for the homebuilder, to produce a low cost airplane. Bernard's first prototype was developed in 1928 which a similar model was called the Air Camper. The materials used to construct the aircraft were spruce wood and plywood with Ceconite covering material. Dope was the type of paint used on the fabric. The dope would shrink the fabric for a perfect fabric stretching fit. The fabric shrinkage from the applied dope had to be controlled by the builder because of the possibility of collapsing the wing ribs.

The engine is mounted backwards with the propelled acting as a flywheel. Modifications were also applied to the motor for controlling carburetor icing, which is a common problem even in modern airplanes. The air entering the carburetor needs to be heated to eliminate the problem. The intake air passes along the hot exhaust manifold and is heated. Loaded weight dictates the distances for taking off and landing the airplane. Flying small planes on windy days can be very bumpy ride. The wing and fuselage stress capabilities are used to define the types of flying pilots can do. Aerobatics are done in specially designed planes that will hold up to the stress put on them during maneuvers.
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