

SERVICE

MEMO

Service Memo No. 44

GENERAL SPECIFICATIONS (Commercial Models)

PIPER CUB CRUISER

A.T.C. NO. 725

MODELS: J5A-75 and J5B-75

TYPE: Three place, closed, high wing monoplane

ACCOMMODATIONS: Enclosed cabin with single seat forward and side-by-side seat behind; dual controls; rear control detachable; door on right side of cabin; baggage compartment (11 x 30 x 10) aft of rear seat; capacity - 41 lbs.

AIRFRAME SPECIFICATIONS:

Length Overall	22 ft. 6 in.	Rudder Area	6.76 sq. ft.
Height Overall	6 ft. 10 in.	Stabilizer Area	15.10 sq. ft.
Span	35 ft. 5.5 in.	Elevator Area	11.68 sq. ft.
Cord	63 in.	Empty Weight	820 lbs.
Wing Area (Incl. Ailerons)	179.3 sq. ft.	Useful Load	630 lbs.
Aileron Area	19.2 sq. ft.	Gross Weight	1450 lbs.
Fin Area	4.7 sq. ft.	Wing Loading	8.09 lbs. per sq. ft.
		Power Loading	19.3 lbs. per H.P.

POWER PLANT: J5A Continental A-75-8 (or -9); J5B - Lycoming GO-145; four cylinder horizontally opposed air cooled engine; 75 h.p. at sea level; fuel capacity - 25 U.S. gals.; oil capacity - 5 qts.; fuel consumption 6 gals. per hour at cruising; propeller - Sensenich, wood, fixed, diameter - 74 inches.

PERFORMANCE: Top speed - 95 mph at 3000 ft.; cruising speed - 80 mph at 3000 ft.; landing speed (stalling) - 43 mph; climb at sea level - 400 ft. per min.; service ceiling - 13,000 ft.; normal range - 380 miles; gliding ratio 9 to 1.

CONSTRUCTION: Wings: USA - 35B Mod. Airfoil section; wood spars, nicral ribs, wood wing tip bow, aluminum leading edge, fabric covered, strut braced.

Fuselage: Warren truss, 4 steel tube longerons, fabric covered.

Tail Surfaces: Steel tube structure, fabric covered.

Landing Gear: Fixed-divided type. Two side vees and half-axles hinged to cabane. Rudder shock cords. Tread - 74-1/2 inches. Hayes wheel - 841 (8.00 x 4 tires); hydraulic expander tube brakes.

Tail Unit: Three leaf spring, steerable wheel.