

SERVICE

MEMO

Service Memo No. 43

GENERAL SPECIFICATIONS

(Commercial Models)

PIPER CUB COUPE

A.T.C. NO. 740

MODEL: J4E-75

TYPE: Two place, closed, land, high wing monoplane

ACCOMMODATIONS: Enclosed cabin seating two side-by-side; dual controls; door on each side of cabin; baggage compartment (20 x 40 x 14) aft of seat; capacity 105 lbs.

AIRFRAME SPECIFICATIONS:

Length Overall	22 ft. 6 in.	Stabilizer Area	14.66 sq. ft.
Height Overall	6 ft. 10 in.	Elevator Area	10.64 sq. ft.
Span	36 ft. 2 in.	Empty Weight	890 lbs.
Cord	63 in.	Useful Load	510 lbs.
Wing Area (inc. Ailerons)	183 sq. ft.	Gross Weight	1400 lbs.
Aileron Area	19.2 sq. ft.	Wing Loading 7.65 lbs. per sq. ft.	
Fin Area	4.66 sq. ft.	Power Loading 18.66 lbs. per HP	
Rudder Area	6.76 sq. ft.		

POWER PLANT: One Continental A-75-9 (or -8) four cylinder horizontally opposed air cooled engine; 75 h.p. at sea level; engine completely enclosed in hinged cowling; fuel capacity - 25 US gals.; oil capacity - 5 qts.; fuel consumption - 6 gals. per hour at cruising; propeller - Sensenich, wood, fixed, diameter 72 inches.

PERFORMANCE: Top speed - 95 mph at 3000 ft.; cruising speed - 80 mph at 3000 ft.; landing speed (stalling) 42 mph; climb at sea level - 450 ft. per min.; service ceiling - 12,000 ft.; normal range - 334 miles; gliding ratio - 9 to 1.

CONSTRUCTION: Wings: USA 35B Mod. airfoil section; wood spars, nicral ribs, wood 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; faired-in side vees, incorporating oleo-springing; Hayes wheels - 841 (8.00 x 4 tires) enclosed in streamlined fairings, hydraulic expander tube brakes - tread 77 in.

Tail Unit: Full swivelling tail-wheel.