## SERVICE

## МЕМО

Service Memo No. 45

## GENERAL SPECIFICATIONS

(Commercial Models)

PIPER CUB SUPER CRUISER

A. T. C. No. 725-1

MODEL: J5C-100

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

Enclosed cabin with single seat forward and side-by-side seat behind: ACCOMMODATION:

dual controls; rear control detachable; door on right side of cabin;

baggage compartment (11 x 12 x 26) 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	35ft.	5,5 in.	Elevator Area	11.68 sq. ft.	
Cord		63 in.	Empty Weight	860 lbs.	
Wing Area (Incl. Ailerons)	179.3 s	q. ft.	Useful Load	890 lbs.	
Aileron Area	19.2 s	sq. ft.	Gross Weight	1550 lbs.	
Fin Area	4.70 sq. ft.		Wing Loading 8.64 lbs. per sq. ft.		
			Power Loading 15.5 lbs. per H.P.		

POWER PLANT:

One Lycoming 0-235-2, four cylinder horizontally opposed air cooled engine completely enclosed in hinged cowling, 100 h.p. at sea level; fuel capacity - 20 US gals. (also available with 38 US gals.); oil capacity - 2 gals.; fuel consumption - 8 gals. per hour at cruising; propeller -Sensenich, wood, fixed, diameter - 74 inches.

PERFORMANCE:

Top speed - 110 mph. at 3000 ft.; cruising speed - 95 mph. at 3000 ft.; landing speed (stalling) - 45 mph., climb at sea level - 650 ft. per min.; service ceiling - 16,000 ft.; normal range - (38 gals. - 431 miles) 20 gals. - 238 miles; gliding ratio 9 to 1.

C ONSTRUCTION: 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. Two side vees and half-axles hinged

> to cabane enclosed in fuselage, rubber shock cords. Tread - 74.5 in., Hayes wheels - 841 (8.00 x 4 tires):

hydraulic expander tube brakes.

Tail Unit: Three leaf spring, steerable wheel.