

# SERVICE

# MEMO

Service Memo No. 41

## GENERAL SPECIFICATIONS (Commercial Models)

### PIPER CUB TRAINER

A.T.C. No. 691

MODELS: J3C-65, J3F-65, J3L-65

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

ACCOMMODATION: Enclosed cabin seating two in tandem, dual control, with front (or rear) control detachable; baggage compartment (10 x 10 x 24) aft of rear seat; capacity - 20 lbs.

### AIRFRAME SPECIFICATIONS:

Length Overall	22 ft. 4.5 in.	Stabilizer Area	14.65 sq. ft.
Height Overall	6 ft. 8 in.	Elevator	10.64 sq. ft.
Span	35 ft. 2.5 in.	Empty Weight	680 lbs.*
Wing Area (Incl. Ailerons)	178.5 sq. ft.	Useful Load	540 lbs.*
Aileron Area	19.2 sq. ft.	Gross Weight	1220 lbs.*
Fin Area	4.0 sq. ft.	Wing Loading	6.83 lb. square ft.*
Rudder Area	6.53 sq. ft.	Power Loading	18.8 lb. per HP *

POWER PLANT: One Continental A65-8, Franklin 4AC-176 or Lycoming O-145; four cylinder horizontally opposed air-cooled engine; 65 h.p. at sea level; fuel capacity - 12 US gals.; oil capacity - 4 qts.; fuel consumption - 4.08 gals. per hour at cruising\*; propeller - Sensenich, wood, fixed, diameter - 72 inches.

PERFORMANCE: Top speed - 87 mph. at 3000 ft.; cruising speed - 75 mph. at 3000 ft.; landing speed (stalling) - 38 mph; climb at sea level - 450 ft. per min.; service ceiling - 11,500 ft.; normal range - 220 miles\*, gliding ratio - 10 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 below fuselage; rubber shock cords, tread 71 inches; Hayes wheels - 841 (8:00 x 4 tires); hydraulic expander tube brakes.

Tail Unit: Three leaf spring, steerable wheel.

(\*These figures apply to J3C only)