

MODELS: Piper J4F, 2 PCLM

T.C. NUMBER: T.C. 721 (Approved 3/22/40)

(Same as Model J4A, T.C. 703, except engine installation)

Engine	Lycoming O-145-B1 (See also item 301)
Fuel	73 minimum octane aviation gasoline
Engine limits	For all operations, 2550 rpm (65 hp)
Airspeed limits	Level flight or climb - 100 mph True Ind. Glide or dive - 135 mph True Ind.
Propeller limits	Static rpm at maximum permissible throttle setting - Not over 2470 - Not less than 2225 No additional tolerance permitted Diameter - Not over 86 inches - No under 68 inches
C.G. range	(+12.9) to (+21.0)
Datum	Leading edge of wing
Leveling means	Level with 30 inch level (front and 9 in. aft wing leading edge) against bottom of second rib out with back end blocked down 1/4 inch.
Maximum weight	1301 lbs.
No. seats	2 (+19.5)
Maximum baggage	105 lbs. (+43.5)
Fuel capacity	16 gallons (-10.5)
Oil capacity	1 gallon (-36)
Control surface movements	Not available
Serial numbers eligible	4-828 and up
Required equipment	Items 101, 102, 103, 104, 105, 106 and 107
Specifications pertinent to	all models:
Certification basis	Type Certificate No. 721 (CAR 4a)
Production basis	Production Certificate No. 7
Export eligibility	Eligible for export as follows, subject to provisions of MOP 2-4: (a) Canada - Landplane - eligible. - Skiplane - not eligible. However, structure complies with Canadian requirements for ski installation at maximum weight of 1200 lbs. with ski height of 8-1/2 inches and ski overhang of 3-7/16 inches (distance along axle centerline from outer face of brake plate to intersection with ski centerline). (b) Great Britain provided rear spar is reinforced in accordance with Drawing D1007-E. (c) All other countries except Australia and New Zealand.

Propellers and Propeller Accessories

101. Propeller - wood (fixed or adjustable pitch)	12 lbs.	(-50)
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Engines and Engine Accessories - Fuel and Oil System

106. Carburetor heater		
107. Enclosed type engine cowl		
108. Oil filter, Fram PB-5, Kit No. K-520, Fram installation Drawing No. 61548	5 lbs.	(-22.5)
301. Engines (Lycoming, per Engine Specification No. 210)		(-28)
(a) O-145-E2	+11 lbs.	
(b) O-145-B3	+14 lbs.	
310. (a) Auxiliary 9 gallon fuel tank installation (see NOTE 2)	11 lbs.	(+57)
(b) 5 quart oil capacity	No weight change	

Landing Gear and Floats

102. 8.00-4 wheels with brakes (Hayes 841) and tires	25 lbs.	(+7)
103. (a) Shock cord tail wheel installation (Drawing D311-E) serial numbers 4-400 to 4-827, inclusive	7 lbs.	(+174)
(b) Leaf spring tail wheel installation (Drawing D395-E or D3010-E) serial numbers 4-828 and up.	10 lbs.	(+176)
303. Wheel streamlines	6 lbs.	(+7)
305. 8.00-4 4-ply tires		

307.	Parking brake (Drawing D4159-C)	3 lbs.	(-5)
308.	Skis	Use actual weight change	
	(a) Piper 8-1000		
	(b) Fairbanks MF-5		
	(c) Federal SA-1 or SA-2		
	(d) Federal SC-1 or SC-2		
	(e) Aviation Service B		
	(f) Air Transport 1220-480		
	(g) Air Transport 1460-580		
	(h) Marston MFS-1600		
	(i) Heath 655		
	(j) Heath 725		
	(k) Jack Carr Service 16		

Electrical Equipment

104.	Battery and box (Exide 3-AC-7 or Willard SYR-7-3)	9 lbs.	(+16)
311.	Battery (12V, Reading SYR-7-6)	15 lbs.	(+16)
312.	Generator, W.D. (Air Associates GE20)	7 lbs.	(+5)
314.	Landing light (Grimes ret.)	4 lbs.	(+15)

Interior Equipment

304.	Cabin heater		
313.	Flares	9 lbs.	(+31)

Miscellaneous (not listed above)

105.	Two cabin doors		
306.	Corrosion proofing	7 lbs.	

NOTE 1. Leading edge of stabilizer must be set so that the bolts in the stabilizer yoke attachment fittings are located in the center hole of the fitting as shown on Piper Drawing D450-F.

NOTE 2. Placard fuel selector valve as follows when auxiliary tank (item 310(a)) is installed: "Use main tank for take-off and landing. In level flight, use auxiliary tank before using main."

NOTE 3. No aircraft of these models shall be eligible for original certification with single ignition engines after 8/1/41. In addition, no aircraft of these models shall be eligible for recertification with single ignition engines unless such aircraft were either previously certificated with single ignition engines or were originally certificated prior to 8/1/41.