

MODELS: Fairchild 24H and 24HS, 3 PCL-SM

T.C. NUMBER: ATC 632

I - Specifications Pertinent to Both Models:

Engine	Ranger 6-390D3
Placard limits	For all operations: 2350 rpm (150 hp)
Placard speeds	Level flight or climb - 138 mph True Ind. Glide or dive - 165 mph True Ind. Flaps extended - 94 mph True Ind.
Fuel	40 gallons (two tanks, 20 gallons in each wing) (+24)
Oil	3 gallons (-19)
No. passengers	2 (front +26, rear +45)
Baggage	76 lbs. (Baggage carried on both sides of rear passenger seat) (+42)
Spec. basis	Approved Type Certificate No. 632
Serial Nos.	3200 and up manufactured prior to 9/30/39 eligible. Approval expired as of that date.

EQUIPMENT:

(Datum is wing leading edge) (* Means net increase)

Class I:

A. Landplane			
101. Generator (Elec. Spec. NA1) and cutout	17 lbs.		(-12)
102. Battery (Reading 6-ARL-1) in engine compartment	29 lbs.		(-19)
103. Starter (Eclipse Y-150)	18 lbs.		(-13)
104. 6.50-10 wheels (Warner 3270) and tires	55 lbs.		(+2)
105. 8 inch streamline tail wheel with 6-ply heavy duty tire			(+209)
106. Oil cooler (Harrison)	11 lbs.		(-27)
107. Wheel streamlines	16 lbs.		(+3)
108. Wood propeller (fixed pitch)	31 lbs.		(-60)
109. Flaps and controls	39 lbs.		(+51)
B. Seaplane: Items 101, 102, 103, 106, 108 and 109 PLUS			
151. Edo Model 44-2425 floats with water rudders			
151. Seaplane fin	4 lbs.		(+196)

Class II:

A. Landplane			
200. Miscellaneous items as noted in approved weight and balance report.			
201. Parachute front seats:			
(a) Irvin	35 lbs.		(+34)
(b) Switlik	30 lbs.		(+34)
202. Flares (three 1-1/2 minute)	20 lbs.		(+56)
203. Metalizing and corrosion proofing	12 lbs.		(+42)
204. Corrosion proofing	8 lbs.		(+42)
205. Radio equipment			
(a) Receiver (RCA AVR-7 Series) (Chassis at side of or under rear seat)	25 lbs.		(+46)
(b) Receiver (W.E. 17A) (Chassis at instrument panel - power supply at side of or under rear seat)	26 lbs.		(+30)
(c) Receiver (RCA AVR-10 Series) (Chassis at instrument panel - power supply at +14)	11 lbs.		(+11)
(d) Transmitter (RCA AVT-7 Series) (Chassis at side of or under rear seat - power supply aft of seat)	33 lbs.		(+67)
(e) Compass (Fairchild RC-3) (Chassis forward of rear seat - power supply at side of or under seat)	65 lbs.		(+41)
(f) Compass (RCA AVR-8) (Chassis at side of or under rear seat)	58 lbs.		(+43)
206. Pressure fire extinguisher	18 lbs.		(+42)
B. Seaplane: Items 200, 201 to 206, inclusive, PLUS 304, 305, 306 and 311			

Class III:

A. Landplane			
301. Extra 20 gallon fuel tank (replacing rear seat) (Allowable baggage may be			

	increased 40 lbs.)	11 lbs.	(+46)
302.	Hub streamlines	Net decrease 12 lbs.	
303.	Seaplane fittings	Neglect weight change	
304.	Generators		
	(a) Wind-driven (Air Associates SK-380)	10 lbs.	(-10)
	(b) Wind-driven (Air Associates 41475)	8 lbs.	(+9)
305.	Propeller - fixed pitch metal (Curtiss)	15 lbs.	(-60)
306.	Engine shielding		
307.	Landing lights		
	(a) One or two (Grimes ST-250)	4-1/2 lbs. each	(+16)
	(b) Two (Adams-Westlake A-6)	9 lbs.	(+2)
308.	Cabin heater	4 lbs.	(-21)
309.	Cabin ventilator		
310.	Dual brake controls	5 lbs.	(-7)
311.	Extra instruments	23 lbs.	
312.	Quick release door hinges	1 lb.	(+10)
313.	Engine		
	(a) Ranger 6-410-BIA	No weight change	
	Limits: For all operations,		
	2450 rpm (165 hp)		
B.	Seaplane: Items 301, 303, 307, 308, 309,		
	312 and 313		

NOTE 1. Seaplanes must have a stabilizer setting of -2 degrees, and an up elevator travel of 25 degrees or less.

NOTE 2. Eligible for export as follows subject to inspection for equipment specified in Chapter XII of Inspection Handbook (9/30/39):

- (a) Canada
 - Landplane and Seaplane
 - Skiplane - not eligible.
- (b) Australia - Landplane only.
- (c) All other countries.

II - Model 24H, Designation 3 PCLM:

Propeller	Maximum permissible diameter 107 in.
Standard weight	2400 lbs.
C.G. limits	(+17.1) and (+22.6)

III - Model 24HS, Designation 3 PCSM (See NOTE 1):

Propeller	Maximum permissible diameter 112 in.
Standard weight	2550 lbs.
C.G. limits	(+19.2) and (+23.9)