

MODELS: Bellanca Pacemaker 31-42, 1 or 8 PCLM

T.C. NUMBER: 578

Engine	Wright R975E-2 (See also Item 201)
Placard limits	Maximum, except take-off -- in. Hg., 2150 rpm (420 hp)
	Take-off (one minute) -- in. Hg., 2150 rpm (420 hp)
Placard speeds	Level flight or climb - 160 mph True Ind.
	Glide or dive - 198 mph True Ind.
Fuel	200 gallons (two tanks in wings at 100 gallons each - right wing tank has built-in reserve tank of 12 gallon capacity)
Oil	12-1/2 gallons
No. passengers	None or 7
Baggage	Provision in fuselage bays 1, 2 and 3 (numbered front to rear)
	(a) Passenger type 1st bay 25 lbs.
	(b) Cargo type 1st bay (1375 + 25) 1400 lbs.
	Cargo type 2nd bay 400 lbs.
	Cargo type 3rd bay 200 lbs.
Standard weight	5600 lbs.
C.G. limits	(+11.8) and (+24.5)
Spec. basis	Type Certificate No. 578 (Aero. Bulletin 7A requirements)
Serial Nos.	251 and p eligible per NOTE A. (See also NOTES 2 and 3.)

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

Class I:

101. Engine ring cowl	30 lbs.
102. Battery (under cabin floor)	40 lbs.
103. Starter	20 lbs.
104. Generator	20 lbs.
105. Throw-over type control column	
106. 31 in. streamline wheels	
107. 5.00-4 tail wheel	
108. Propeller - controllable metal (Hamilton Standard 2D30 with blades 6101A-10)	

Class II:

200. Miscellaneous items as noted in approved weight and balance report	
201. Wright R975E-3 engine	
Placard limits - Maximum, except take-off 34-1/2 in. Hg., 2200 rpm (420 hp);	
Take-off (one minute) 35 in. Hg., 2200 rpm (420 hp)	

NOTE A. Each aircraft manufactured after July 18, 1941 must, prior to original certification, satisfactorily pass:

- An inspection for workmanship, materials and conformity before any covering, metal priming or final finish is applied. All woodwork must be varnished.
- A final inspection of the completed aircraft.
- A check of flight characteristics.

NOTE 1. Eligible for export as follows subject to inspection for equipment specified in Chapter XIII of Inspection Handbook (12/12/41):

- Canada
 - Landplane
 - Skiplane - not eligible. However, structure complies with Canadian requirements for ski installation
- All other countries except Great Britain, Australia and New Zealand.

NOTE 2. Serial No. 252 with Skyrocket F type ailerons, benches, replaced by seats and fuselage same as Skyrocket 31-50 except engine mount is eligible as 6 PCLM with the following:

No. passengers 5
Baggage 150 lbs. (two compartments - 110 lbs. forward in cabin and 40 lbs. aft or rear seats)
Class I equipment: Items 101, 102, 104, 105, 106, 107, 109 PLUS:
radio 20 lbs.; landing lights 8 lbs.; flares 16 lbs.; starter 32 lbs.; heater 20 lbs.; toilet equipment 7 lbs.

NOTE 3. Serial Nos. 253 is eligible as 6 PCLM with item 201 and the following:

No. passengers 6 (2 on rear seat in cabin; 3 on forward seats in cabin one of which is folding type; 1 in pilot's compartment)
Baggage 100 lbs. (compartment in bottom in fuselage)
Class I equipment: Items 101 thru 107 PLUS: Propeller controllable metal (Hamilton Standard hub 2D30-15 and blades 6101-12); landing lights 8 lbs.; heater; flares 15 lbs.; radio bonding and shielding 20 lbs.