

Oil capacity	6-1/2 gallons (-17)		
Control surface movements	Elevators	30 degrees up	28 degrees down
	Elevator tab	14.5 degrees up	14.5 degrees down
	Ailerons	33 degrees up	25 degrees down
	Rudder	28 degrees right	28 degrees left
	Rudder tab	20 degrees right	20 degrees left
	Flaps	43 degrees down	
Serial Nos. eligible	424, B-1, and up		
Required equipment	1, 2, 101, 103, 104, 107, 201, 202, 301, 302, 303, 304		

Specifications Pertinent to All Models

Certification basis	Type Certificate No. 779 (Aero. Bulletin 7A and CAR 4 effective prior to 11/9/45)
Production basis	Production Certificate - None (See NOTE A)
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 gear when Item 203 is installed. Maximum pedestal height is 17 inches. Tread is same as landplane.
	(b) All other countries except New Zealand.

EQUIPMENT: A plus (+) or minus (-) sign preceding the weight of an optional item indicates the net weight change between that item and the equivalent required item.

Propellers and Propeller Accessories

1. Propellers - Hamilton Standard hub
2D30 with
 - (a) Blades 6095A-15, -16 or 6167A-15, -16 (pitch settings, low 11 degrees, high 26 degrees) or 157 lbs. (-61)
 - (b) Blades 6101A-21T, -22T 163 lbs. (-61)
 Diameter 8' 3-1/8" maximum, 8' 7/8" minimum.
2. Constant speed governor - Hamilton Standard Type 1A2 5 lbs. (-30)
3. Propeller spinner and bolts - Montgomery Metal Spinner Works 11 lbs. (-62)

Engine and Engine Accessories - Fuel and Oil Systems

101. Carburetor air heater (muff type) 6 lbs. (-31)
102. Starter - Eclipse E80 or Type 397, Model 13 18 lbs. (-30)
103. Oil radiator (94-189850) 11 lbs. (-29)
104. Fuel pumps
 - (a) Wobble - United Aircraft U-550-EE 4 lbs. (+14)
 - (b) Engine driven - AN 4100 type G6 2 lbs. (-32)
105. Oil tank 8 gallons No weight change
106. Two 23 gallon auxiliary fuel tanks upper wing 17 lbs. each (+47)
107. Oil radiator by-pass valve 2 lbs. (-29)
108. Vacuum pump
 - (a) Pesco, Type B-11 4 lbs. (-28)
 - (b) Aro. Type A-3c 4 lbs. (-28)
109. Engine (must have one 4-1/2N and one 9N damper)
 - (a) Military R-985-AN-1 or AN-3 Use actual weight increase
 Limits
 Maximum, except take-off (S.L.)
 35 in. Hg., 2200 rpm (400 hp)
 (Straight line manifold pressure variation with altitude to 3800 ft.) 34 in. Hg., 2200 rpm (400 hp)
 Take-off (one minute)
 37.5 in. Hg., 2300 rpm (450 hp)

Landing Gear

201. Main wheels and brakes - Goodyear LIOHEM with integral single disk brake with 7.50-10 6-ply tire and tubes 38 lbs. each (+6)
202. 10 inch smooth contour tail wheel with 6-ply tire and tube 6 lbs. (+211)
203. Skiplane landing gear (Drawing D17820 and D17840) +3 lbs. (+20)

Electrical Equipment

301.	Generator 25 amp (Eclipse Type 309, Model 8)	22 lbs.	(-32)
302.	Battery - 12 volt (37 amp hr., 5 hr. rate)	40 lbs.	(+92)
303.	Landing gear motor (Dumore D5, 3843C) (40 amp fuse required)	9 lbs.	(+6)
304.	Flap motor (Dumore Type K Special 4253 flexible drive) (30 amp fuse required)	5 lbs.	(+42)
305.	Two landing lights (Grimes ST1220)	6 lbs. each	(+25)

Interior Equipment

402.	Parachute flares		
	(a) Three 1-1/2 min. (International MK-1)	18 lbs.	(+78)
	(b) Four 1-1/2 min. (International MK-1)	24 lbs.	(+80)
403.	Cabin heater (muff type)	4 lbs.	(-30)

NOTE A. Prior to original certification, each aircraft manufactured subsequent to August 7, 1945, must satisfactorily pass:

- (a) An inspection for workmanship, materials and conformity before covering, metal priming or final finish is applied.
- (b) A final inspection of the completed aircraft.
- (c) A check of the flight characteristics.

NOTE 1. Current weight and balance report including list of equipment included in certificated weight empty, and loading instructions when necessary, must be in each aircraft at the time of original certification and at all times thereafter.

NOTE 2. The following placard must be displayed in the instrument panel in full view of the pilots:

- (a) "Intentional spinning prohibited."
- (b) "When one or more passengers are carried the right front seat must be occupied."

NOTE 3. Due to loading considerations a full restriction placard in full view of the pilot must state: "Fill fuel tanks in following order: front fuselage, lower wing, upper wing (when installed) and rear fuselage. Use in reverse order."