

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

A-643 Revision 2 TAYLORCRAFT A November 1, 1969

AIRCRAFT SPECIFICATION NO. A-643

Type Certificate Holder: Taylorcraft, Inc.
Connellsville Airport
Connellsville, Pennsylvania 15425

I - Model A, A PCL-SM

Engine	Continental A-40-4 (See item 309 for optional engines)
Engine limits	For all operations, 2575 r.p.m. (40 hp.)
Airspeed limits (True Ind.)	Level flight on climb 92 m.p.h. (80 knots) Glide or dive 125 m.p.h. (109 knots)
Propeller limits	Max. permissible diameter, 75 inches
Center of Gravity (C.G.) range	Landplane: (+16.0) to (+19.6) Seaplane: (+18.1) to (+20.4) with Edo D-1070 floats (+17.0) to (+20.4) with Edo 54-1140 floats
Empty weight C.G. range	Landplane: (+17.3) to (+18.3) Seaplane : (+18.5) to (+19.7) with Edo 54-1140 floats None with Edo D-1070 floats. If empty weight C.G. falls within this range, it is unnecessary to check critical forward and aft C.G. positions. Ranges are not valid for non-standard arrangements.
Maximum weight	Landplane: 1050 lb. Seaplane: 1130 lb.
No. of seats	2 (+23)
Maximum baggage	30 lb. (+41)
Fuel capacity	10 gal. (-12)
Oil capacity	1 gal.
Serial Nos. eligible	26 and up
Required equipment	Landplane: Items 101, 102, 103 Seaplane : Items 103, 151 or 351, 152. When Edo D-1070 floats are used, fuselage must conform to Dwg. A-A110, change "0". When Edo 54-1140 floats are used, fuselage must conform to Dwg. A-A165, Change "C".

NOTE - Not eligible for original certification with single ignition engine after August 1, 1941.

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Datum	Landing edge of wing
Certification basis	Type Certificate No. 643 (Aero. Bulletin 7-A)
Production basis	None. Prior to original certification of each aircraft a FAA Inspector must perform a detailed inspection for workmanship, materials, and conformity with the approved technical data, and a check of the flight characteristics.
Export eligibility	Eligible for export to all countries subject to the provisions of Advisory Circular 21-2.

Equipment: A plus (+) or minus (-) sign preceding the weight of an item of equipment indicates net weight change when that item is installed.

Approval for the installation of all items of equipment listed herein has been obtained by the aircraft manufacturer except those items preceded by an asterisk (*). The asterisk denotes that approval has been obtained by someone other than the aircraft manufacturer. An item marked with an asterisk may not have been manufactured under a CAA monitored or approved quality control system, and therefore attention should be paid to workmanship and conformity with pertinent data called for in this specification.

Propellers and Propeller Accessories

- | | | |
|------|---|--------------|
| 103. | Propeller-wood, fixed or adjustable pitch | 11 lb. (-47) |
| 201. | Everel propeller I-38-A, single blade | +12 lb. |

Engines and Engine Accessories - Fuel and Oil System

- | | | |
|------|---|------------------|
| 306. | (a) Cabin and carburetor heater - Wooster | +4 lb. |
| | (b) Taylorcraft cabin heater A-L66 | 2 lb. |
| 309. | Engines | |
| | (a) Continental A-40-3 | Neglect wt. chg. |
| | Engine limits: For all operations, 2550 r.p.m. (37 hp.) | |
| | (b) Continental A-40-5 (dual ignition) | +11 lb. approx. |
| | Engine limits: For all operations, 2575 r.p.m. (40 hp.) | |
| 310. | Pressure cowling - Greider Model A | +2 lb. |

Landing Gear and Floats

- | | | |
|-------|---|--------------|
| 101. | 6.00-6 wheels - Shinn | |
| 102. | Tail skid | |
| *151. | Edo D-1070 floats with water rudders
(This item plus item 152, seaplane fin, yield approx.
109 lb. net weight increase) | 149 lb. |
| 302. | Tail wheels | |
| | (a) 6 x 2.00 steerable | +3 lb. |
| | (b) 6 x 2.00 steerable - Aircraft Associates | +3 lb. |
| | (c) 6 x 2.00 free swiveling - Goodyear Commercial | +1 lb. |
| 304. | 6.00-6 wheels with brakes - Shinn | +5 lb. |
| 305. | Wheel pants | 6 lb. |
| *311. | Skis | Use act. wt. |
| | (a) Federal SA-1 | |
| | (b) Richards 1-B | |
| | (c) Air Transport 1220-480 | |
| | (d) Alaska Airmotive Taylorcraft | |
| | (e) Jennings TY-2 | |
| | (f) Federal SC-1 | |
| | (g) Marston 1200 | |
| | (h) Heath 725 | |
| | (i) Federal SKT-1 | |
| | (j) Wesco A-15 installed in accordance with Western Aircraft Equipment Co. Dwgs. 148, 202 and 203. | |

*351. Edo 54-1140 float installation, including water rudders (This 140 lb. item plus item 152, seaplane fin, yield approx. 100 lb. net weight increase).

Electrical Equipment

203.	Battery and box	9 lb. (-17)
307.	Navigation lights	3 lb.

Miscellaneous

152.	Auxiliary Seaplane Fin
303.	Auxiliary Door

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