

FEDERAL AVIATION AGENCY

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| A7EA FOUND BROTHERS FBA-2C October 1, 1965 |
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TYPE CERTIFICATE DATA SHEET NO. A7EA

This data sheet which is a part of type certificate No. A7EA prescribes conditions and limitations under which the product for which the type certificate was issued meets the airworthiness requirements of the Civil Air Regulations.

Type Certificate Holder Found Brothers Aviation Limited
 Toronto International Airport
 Malton, Ontario, Canada

I - Model FBA-2C, 5 PCLM (Normal Category), Approved June 23, 1965 by the FAA and February 19, 1964 by the Canadian Department of Transport (DOT)

Engine Lycoming O-540-A1C5

Fuel 91-96 minimum grade aviation gasoline

Engine limits Maximum for all operations, 250 hp. at 2575 r.p.m.
 Full throttle at sea level

Propeller and
 propeller limits McCauley variable pitch Model 2D36C28/80MM-6
 Diameter: Maximum 74 inches, minimum 73 inches
 No reduction in minimum size allowed
 Pitch setting at Station 30.0: low 15.7°, high 32.0°

Constant speed governor Woodward 210395

Hartzell Constant Speed HC-927K-1D/8847-0 70 lb. (-63.0 in.)
 Diameter: maximum 88 inches, minimum 88 inches
 Pitch setting at Station 30.0 inches: low 12°, high 26.4°

Woodward constant speed governor B210340

Airspeed limits (CAS) Vne (never exceed) 155.3 m.p.h. (135 knots)
 Vno (max. structural cruising) 123.3 m.p.h. (107 knots)
 Vp (maneuvering) 123.0 m.p.h. (107 knots)
 Vfe (flaps extended) 108.0 m.p.h. (93.5 knots)

C.G. range
 (Landing Gear Fixed) Landplane and Skiplane (See Note 4 for Ski Installations)

| <u>Gross Weight</u> | <u>Forward Limit</u> | <u>Aft Limit</u> |
|---------------------|-----------------------|-----------------------|
| 2850 lb. | +17.0 in. (15.2% MAC) | +24.5 in. (27.2% MAC) |
| 2250 or less | +15.3 in. (12.6% MAC) | +24.5 in. (27.2% MAC) |

Seaplane (See Note 5 for Float Installations)

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| 2850 lb. | +17.0 in. (15.2% MAC) | +23.5 in. (25.5% MAC) |
| 2250 or less | +15.3 in. (12.6% MAC) | +23.5 in. (25.5% MAC) |

Straight line variation between points given

Empty weight C.G. range None

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| Datum | Main landing gear beam center line |
| M.A.C. | 62.9 in. (L.E. of MAC is +22.40 in. aft of datum) |
| Leveling means | Aircraft cabin floor level - laterally and longitudinally |
| Maximum weight | Landplane and Skiplane - 2850 lb. Seaplane - 2850 lb. (See Note 3 for eligibility at 3,000 lbs.) |
| Minimum crew | 1 (pilot) |
| No. of seats | 5 (2 at +17.8 in., 3 at +61.75 in.) |
| Maximum baggage | 150 lb. at +92.5 in. |
| Fuel capacity | 56.0 Imperial gallons (67.3 U.S. gallons) total (+22.2 in.) - 28 Imperial gallons (33.6 U.S. gallons) each wing tank 55.0 Imperial gallons (66.1 U.S. gallons) usable |
| Oil capacity | 10.5 Imperial quarts (12.6 U.S. quarts) max. (-38.8 in.) |
| Control surface movements | Wing Flaps 0° up 32° down Aileron 18° up 12° down Elevator (0° Stab.) 29.5° up 21.5° down Stabilizer 3° up 5° down Rudder 30° left 30° right |
| Serial Nos. eligible | 3 and up. The Canadian Department of Transport Certificate of Airworthiness for export endorsed as noted under "Import Eligibility" must be submitted for each individual aircraft for which application for certification is made. |
| Certification basis | CAR 3 dated May 15, 1956 and Amendments 3-1 to 3-7 inclusive. Type Certificate No. A7EA issued June 23, 1965. Date of Application for Type Certificate February 11, 1963. |
| Import eligibility | A U.S. Airworthiness Certificate may be issued on the basis of the Canadian Department of Transport "Certificate of Airworthiness for Export" signed by or for the Minister of Transport. This form must contain the following statement: "This certifies that the aircraft described below has been manufactured in conformity with data forming the basis for D.O.T. Type Approval No. 67, Issue 4 (FAA Type Certificate No. A7EA)." |
| Equipment | The basic required equipment as prescribed in the applicable airworthiness regulations (see Certification Basis) must be installed in the aircraft for certification. In addition, the following items of equipment are required: Landplane, Skiplane and Seaplane: (a) D.O.T. Approved Flight Manual dated February 25, 1964. (b) Stall Warning Indicator per Found Brothers Drawing No. W-535. |

- NOTE 1. (a) Current weight and balance report including list of equipment included in the certificated empty weight, and loading instructions when necessary, must be in each aircraft at the time of original certification and at all times thereafter.
- (b) The certificated empty weight and corresponding center of gravity locations must include unusable fuel of 7.5 lb. (+22.2 in.) and unusable oil of 2.8 lb. (-38.8 in.).

NOTE 2. The following placards must be displayed in clear view of the pilot:

- (a) "THIS AIRPLANE MUST BE OPERATED AS A NORMAL CATEGORY AIRPLANE IN COMPLIANCE WITH THE OPERATING LIMITATIONS IN THE FORM OF PLACARDS, MARKINGS AND MANUALS".

(b) "NO ACROBATIC MANEUVERS INCLUDING SPINS APPROVED".

NOTE 3. Serial Nos. 3, 5 and up, eligible for 3,000 lb. gross weight modification on seaplane per Found Brothers Modification No. 117, and the following limitations are applicable:

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| Airspeed Limits (CAS) | Vne (never exceed) | 153 m.p.h. (133 knots) |
| | Vno (max. structural cruising) | 122 m.p.h. (106 knots) |
| | Vp (maneuvering) | 122 m.p.h. (106 knots) |
| | Vfe (flaps extended) | 111 m.p.h. (97 knots) |

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| C. G. Range | Fwd. limit 15.3 in. aft of datum at all weights |
| | Aft limit 23.6 in. aft of datum at all weights |

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| Maximum Weight | 3,000 lb. |
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| Control surface movements | Wing Flaps | 0° up | 32° down |
| | Aileron | 18° up | 12° down |
| | Elevator (0° Stab.) | 29.5° up | 21.5° down |
| | Stabilizer | 4.5° up | 3.5° down |
| | Rudder | 30° left | 30° right |

Equipment In addition to the pertinent basic equipment specified in the applicable airworthiness regulations (CAR 3), the following items of equipment must be installed:

- (a) Hartzell Constant Speed HC-927K-1D/8847-0 70 lb. (-63.0 in.)
Diameter: maximum 88 in. minimum 88 in.
Pitch setting at Station 30.0 in.: low 12°, high 26.4°

Woodward Constant Speed Governor B210340

- (b) D.O.T. approved Flight Manual dated April 28, 1965

- (c) Stall warning indicator per Found Brothers Drawing No. W-535.

NOTE 4. Ski Installations:

- (a) Federal Model CF3000; installed in accordance with Found Brothers Drawing No. 2C36-1 Issue 2C.

NOTE 5. Float Installations:

- (a) Edo Model 249A-2870; installed in accordance with Found Brothers Drawing No. 2C37-1 Issue 2A.

NOTE 6. Position and Instrument Lights per Found Brothers Modification No. 118.

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