

Department of Transportation - Federal Aviation Administration
Supplemental Type Certificate

Number SA377NW

This certificate, issued to KENMORE AIR HARBOR

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 03 of the Civil Air Regulations.

Original Product — Type Certificate Number: A-765

Make: Beech

Model: D18S, C-45G, C-45H, TC-45G, & TC-45H (Seaplane)

Description of Type Design Change: Installation of Hartzell HC-B3W30-2E/W10160B-6 and/or W10160-6 propellers, governors, and spinners on Pratt & Whitney R-985 series engines in accordance with Kenmore Air Harbor Installation Instructions No. KM2000.

Limitations and Conditions: This approval should not be extended to other specific airplanes of these models on which other previously approved modifications are incorporated unless it is determined that the interrelationship between this change and any of those previously approved modifications will introduce no adverse effect upon the airworthiness of the airplane. This approval is intended for installation in the above models with EDO Model 56-7850A Twin Seaplane Float installation in accordance with Bristol Aerospace Limited STC SA795EA. A copy of this Certificate and FAA Approved Airplane Flight Manual Supplement will be maintained as part of the permanent records for the modified aircraft.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: June 30, 1976

Date reissued:

Date of issuance: December 15, 1976

Date amended:



By direction of the Administrator
Charles C. [Signature]
 (Signature)

Chief, Engineering and Manufacturing Branch
 (Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

This certificate may be transferred in accordance with FAR 21.47.

KENMORE AIR HARBOR, INC.
FAA APPROVED AIRPLANE FLIGHT MANUAL SUPPLEMENT
TO
BEECH D18S, C-45G, C-45H, TC-45G, & TC-45H
FAA APPROVED AIRPLANE FLIGHT MANUAL

The information in this document is FAA approved material which, together with the basic Beech Airplane Flight Manual, is applicable and must be carried in the basic manual when the airplane is modified by the installation of 3-bladed Hartzell HC-B3W30-2E/W10160B-6 and/or W10160-6 propellers in the above models with the EDO Model 56-7850A Twin Scaplane Floats as specified in Supplemental Type Certificate Number SA377NW.

The information in this document supersedes the basic manual only where covered in items contained in this supplement. For limitations, procedures, and performance not contained in this supplement, consult the basic manual.

I. LIMITATIONS:

The following limitations are to be observed in the operation of the airplane:

Engines: 2 Pratt & Whitney R-985-AN-14B
(See aircraft specification No. A-765, Item 113 for
OPTIONAL engines)

Fuel: 80/87 Octane minimum grade aviation gasoline

Engine Limits: For all operations Sea Level 36.5 in. Hg. 2300 rpm (450 HP)
Straight line manifold pressure variation with altitude.
3500 feet 35.5 in. Hg. 2300 rpm (450 HP)

Propeller and

Propeller Limits: Hartzell - 3 Blade

Hub Model: HC-B3W30-2E

Blade Model: W10160-6 or W10160B-6

Diameter: 95½ in. No cutoff permitted

Pitch Settings at 30 in station: High 87°; Low 17°

Tachometer to be marked with yellow arc between 1500 and 1700 rpm and between 2100 and 2275 rpm indicating restriction against continuous operation in this range.

Governor: Hartzell C-3 except H-18 or Woodward 210205, 210494, 210495, 210496, 210402, or 210404.

FAA APPROVED: _____

DEC 15 1976

KENMORE AIR HARBOR, INC.
FAA APPROVED AIRPLANE FLIGHT MANUAL SUPPLEMENT
TO
BEECH D18S, C-45G, C-45H, TC-45G, & TC-45H
FAA APPROVED AIRPLANE FLIGHT MANUAL

I. LIMITATIONS (continued):

Required Equipment (continued):

- 106. Two vacuum pumps
- 107. Two starters
- 109. (c) Beech ram air scoop to Dwg. 404-001024 or Bristol carb. ram air scoop to Dwg. 112-51004.
- 110. Engine fire extinguisher system
- 113. Pratt & Whitney Wasp engines. R-985-AN 14B, AN 10, and AN 4
- 301.
or Two 50 or 100 amp generators.
- 307.
- 302. Battery installation
- 401. FAA Approved Airplane Flight Manual with the following Supplements:
 - (1) Bristol Aerospace Limited E.R. 70053 Supplement No.1 to Beech D18S, C-45G, C-45H, and TC-45G/H AFM, with the installation of float model EDO 56-7850A under STC SA795NW as amended December 8, 1970.
 - (2) Kenmore Air Harbor, Inc. FAA Approved Airplane Flight Manual Supplement with the Installation of Hartzell 3-bladed propellers under STC SA377NW.

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KENMORE AIR HARBOR, INC.
FAA APPROVED AIRPLANE FLIGHT MANUAL SUPPLEMENT
TO
BEECH D18S, C-45G, C-45H, TC-45G, & TC-45H
FAA APPROVED AIRPLANE FLIGHT MANUAL

I. LIMITATIONS (continued):

NOTE: The operating procedures and the performance information as presented in the Bristol Aerospace Limited E.R. 70053 FAA Approved Flight Manual apply as the minimum necessary to satisfy the performance requirements at 8100 lbs. gross weight.

FAA APPROVED:



Chief, Engineering and Manufacturing Branch
Northwest Region

DATE: DEC 15 1976