

United States of America
Department of Transportation Federal Aviation Administration
Supplemental Type Certificate

Number SA348NW

This certificate, issued to:

**Kenmore Air Harbor, Inc.
6321 NE 175th Street
Kenmore, WA 98028**

certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 10 of the Civil Air Regulations.

Original Product—Type Certificate Number: A-806
Make: Viking Air Limited (formerly de Havilland)
Model: DHC-2 Mk.I

Description of the Type Design Change: Fabrication of the Kenmore Alternator Kit in accordance with Kenmore Air Harbor, Inc Master Drawing List number K8783MDL, Revision A, dated January 08, 2010, or later FAA-approved revision; and installation on Pratt & Whitney R-985 series engines in accordance with Kenmore Air Harbor Installation Instructions Number K8783, Revision B, dated January 08, 2010, or later FAA-approved revision.

NOTE: No changes are deemed necessary to de Havilland Flight Manual PSM 1-2-1 as a result of this change.

Limitations and Conditions: Approval of this change in type design applies to the aircraft listed above only. This approval should not be extended to other aircraft of this model on which other previously approved modifications are incorporated unless it is determined by the installer that the relationship between this change and any of the other previously approved modifications, including changes in type design, will introduce no adverse effect upon the airworthiness of that aircraft. (See Continuation Sheet on Page 3)

A copy of this Certificate, the Continuation Sheet, and Kenmore Installation Instructions K8783 must be maintained as part of the permanent records of the modified aircraft.

If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

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: August 17, 1976

Date reissued:

Date of issuance: August 24, 1976

Date amended: January 24, 1977; December 14, 2009;
May 07, 2010



By direction of the Administrator

Original Signed by Philip L. Forde

(Signature)

Acting Manager, Seattle Aircraft Certification Office

(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.

Supplemental Type Certificate

(Continuation Sheet)

Number **SA348NW**

Kenmore Air Harbor, Inc.

Issued: August 24, 1976

Amended: January 24, 1977; December 14, 2009; May 07, 2010

Limitations and Conditions continued:

The conditions and limitations of the original specifications apply except as follows:

MODEL DHC-2 MK.I (L-20A) (BEAVER) (NORMAL CATEGORY) AS MODIFIED BY STC SA348NW

Engine: Pratt & Whitney R-985, SB-3 (Type Certificate Data Sheet A-806)

Optional Engines: Type Certificate Data Sheet A-806, Item 301

- (a) Military R-985-AN2
 - (b) Military R-985-AN4
 - (c) Military R-985-AN6
or -AN6B
 - (d) Military R-985-AN8
 - (e) Military R-985-AN10
 - (f) Military R-985-AN12
or -AN12B
 - (g) Military R-985-AN14B
 - (h) Military R-985-AN-1
 - (i) Military R-985-AN-3
 - (j) Military R-985-39
or -39A
- Engine limits (a) through (g) same as SB-3
(see DHC-2 Mk.I Engine Limit Data)
- (Provided that the alternator fitted to the
engine is compatible with 2:1 drive ratio)

Engine Limits (h) through (j)

<u>Flight Condition</u>	<u>Horsepower</u>	<u>R.P.M.</u>	<u>MP (in Hg)</u>	<u>Altitude</u>
Take-off (5 min)	450	2300	37.5	Sea Level
Maximum Continuous	400	2300	34.5	Sea Level
Maximum Continuous	400	2300	33.0	5000 feet

Straight line manifold pressure variation with altitude to 5000 feet.

Fuel: 80/87 octane minimum grade aviation gasoline

Engine Limits: Same as specified in Type Certificate Data Sheet A-806

- END -

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