

Supplemental Type Certificate

Number SA525NW

This certificate, issued to KENMORE AIR HARBOR, INC.

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 3 of the Civil Air Regulations, Dated May 15, 1956, As Amended by 3-1 Through 3-5.

Original Product — Type Certificate Number: 3A24
Make: Cessna
Model: 185 through 185E

Description of Type Design Change: Installation of a Continental IO-520-D engine and a McCauley D2A34C58/90AT-4 propeller in accordance with Kenmore Air Harbor, Inc. Installation Instructions No. K9341.

Limitations and Conditions: Approval of this change in type design applies basically to the above model aircraft 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 that the interrelationship between this change and any of those other previously approved modifications, including changes in type design, will introduce no adverse effect upon the airworthiness of that aircraft. The approval is also extended to installation in the above models with Edo Model 582-3430

(See Continuation Sheet, Page 3)

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: September 20, 1977

Date reissued:

Date of issuance: October 11, 1977

Date amended:



By direction of the Administrator
Charles C. Schroeder
(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.

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

(Continuation Sheet)

October 11, 1977

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Limitations and Conditions (continued): seaplane floats in accordance with STC SA526NW, and a 3 bladed propeller in accordance with STC SA240NW. A copy of this Certificate and/or Addendum No. SA525NW shall be maintained as part of the permanent records for the modified aircraft.

SUPPLEMENTAL TYPE CERTIFICATE ADDENDUM NO. SA525NW

The conditions and limitations of Type Certificate Data Sheet 3A24 apply except where superseded by the following:

This Supplemental Type Certificate Data Sheet, which is part of STC SA525NW prescribes the conditions and limitations under which the product for which the STC was issued meets the airworthiness requirements of the Federal Aviation Regulations:

SUPPLEMENTAL TYPE CERTIFICATE HOLDER: Kenmore Air Harbor, Inc.

I. MODEL 185 thru 185E, 6PCL-SM(NORMAL CATEGORY) AS MODIFIED BY STC SA525NW

Engine: Continental IO-520-D

Fuel: 100/130 octaine minimum grade aviation gasoline

Engine Limits: Takeoff (5 min.) - 2850 rpm, 300 hp
Maximum Continuous Power - 2700 rpm, 285 hp

Propeller and
Propeller Limits: McCauley D2A34C58/90AT (Landplane)
Diameter: not over 86"; not under 80.5"
Pitch Settings at 36" Sta:
Low - 9.5°; High 25.8°

McCauley D2A34C58/90AT (Floatplane)
Diameter: not over 86"; not under 84.5"
Pitch Settings at 36" Sta:
Low - 8°; High 25°

McCauley D3A32C90/82NC-2
(See STC SA240NW)

EDO-AIRE Hydraulic Governor 34-828-01-1
Cessna Spinner 0752042-1 and Fillet 0752044-1
Woodward Hydraulic Governor A210462
McCauley Hydraulic Governor C290D2/T9 or C290D3/T9

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Powerplant Instrument
Markings:

Oil Temperature:
Green Arc 120° to 240° F - normal operating range

Oil Pressure:
Green Arc 30 to 60 psi - normal operating range
Red Line 20 psi minimum; 100 psi maximum

Tachometer:
Green Arc 2200 to 2550 rpm - normal operating range
Red Line 2850 rpm - maximum

Fuel Flow:
Green Arc 7 to 17 gph - normal operating range
Red Line 25 gph maximum at sea level

Cylinder Head Temperature:
Green Arc 200° to 460° F - normal operating range
Red Line 460° F - maximum

C. G. Range:

Landplane - (See Data Sheet 3A24)

Floatplane - EDO 249A-2870 and 628-2960 (See Data Sheet 3A24)

Float plane (with EDO 582-3430 floats per STC SA526NW as follows:)

(+41.9) to (+46.5) at 3350 pounds
(+35.1) to (+46.5) at 2200 pounds or less

Maximum Weight:

Landplane - 3200 Lbs. - 3300 Lbs. (See Data Sheet 3A24)

Floatplane - with EDO 249A-2870 and 628-2960 floats, see Data Sheet 3A24.

Floatplane - with EDO 582-3430 floats, see STC SA526NW

-END-

REFERENCE