

STC
BOOK

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

Number SA240NW

JAN 23 1978

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

Original Product — Type Certificate Number: 3A24

Make: Cessna

Model: 185 through 185E, A185E, and A185F
(Landplane, Floatplane, and Amphibian)

Description of Type Design Change:

Installation of a McCauley D3A32C90/82NC-2 three-bladed propeller, Cessna 1250909 or 1652043-1 spinner, governor, and associated system on a Continental IO-520-D engine in accordance with Cessna Service Manual No. D 2007C3-13, dated October 15, 1972, and Kenmore Air Harbor, Inc., Installation Instructions K1853, Amended September 21, 1977.

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 affect upon the airworthiness of that

(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: December 4, 1975

Date issued:

Date of issuance: December 8, 1975

Date amended: Feb 5, 1976; Oct 6, 1977;
Jan 16, 1978

By direction of the Administrator

D. L. Riggins
(Signature)



Acting 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.

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Limitations and Conditions continued: aircraft. This approval is also extended to installation in the above models with EDO Model 582-3430 seaplane floats in accordance with STC SA832EA or SA526NW and EDO Model 696-3500 amphibian seaplane floats in accordance with STC SA558NW. A copy of this Certificate and Addendum No. SA240NW shall be maintained as part of the permanent records for the modified aircraft.

SUPPLEMENTAL TYPE CERTIFICATE ADDENDUM NO. SA240NW

The conditions and limitations of Type Certificate Data Sheet Number 3A24 apply except where superseded by the following:

This Supplemental Type Certificate Data Sheet, which is part of STC SA240NW 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 CESSNA 185 THRU 185E AND A185F (NORMAL CATEGORY) AS MODIFIED BY STC SA240NW

Engine:	Continental IO-520-D (Same)
Fuel:	100/130 octane minimum grade aviation gasoline
Engine Limits:	Takeoff (5 min.) - 2850 rpm 300 HP Maximum Continuous Power - 2700 rpm 285 HP
Propeller and Propeller Limits	McCaughey D3A32C90/82NC-2 Diameter: Max. - 80"; Min. - 78" Pitch Setting: Low - 11.5°; High 28.1°
Propeller Governor:	McCaughey C290D2/T9 or C290D3/T9 Woodward A210462

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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 min. 100 psi max.
Tachometer:
Green Arc 2200 to 2550 rpm - normal
operating range
Yellow Arc 2700 - 2850 rpm - caution
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 with EDO 249A-2870 and EDO
628-2960 floats (See Data Sheet 3A24)
Floatplane - with EDO 582-3430 as per
STC SA832EA or SA526NW
Amphibian - (See Data Sheet 3A24)
Straight line variation between points
given
Amphibian - with EDO 696-3500 as per
STC SA558NW

Maximum Weight:

Landplane - (See Data Sheet 3A24)
Floatplane - EDO 249A-2870 - 3190 lbs
EDO 628-2960 - 3320 lbs
See Data Sheet 3A24
EDO 582-3430 - 3350 lbs
Amphibian - EDO 597-2790 - 3100 - 3265 lbs
(See Data Sheet 3A24)
Amphibian - EDO 696-3500 - 3350 lbs

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