United States of America

Department of Transportation — Federal Aviation Administration

Supplemental Type Certificate

Number SA2370NM

This certificate, issued to George F. DeMartini

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 4a *of the* Civil Air *Regulations.*

Original Product — Type Certificate Number A-743

Make Boeing

Model A75N1

Description of Type Design Change:

Installation of a Pratt & Whitney R-985-AN-3 engine and a 24 volt electrical system per Mr. George F. DeMartini's photographs (1) through (10), and later FAA approved revision.

Limitations and Conditions:

Data pertaining to this modification are considered inadequate for duplication in other aircraft. This approval is limited to the installation in Boeing A75N1, Serial Number 75-2227 only. A copy of this Certificate and Addendum shall 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: January 31, 1984

Date of issuance: April 11, 1984

Date reissued:

Date amended:

By direction of the Administrator

(Signature)

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.

FAA Form 8110-2 (10-68)

United States of America
Department of Transportation—Federal Aviation Administration

Supplemental Type Certificate

(Continuation Sheet)

April 11, 1984 *Number* SA2370NM

SUPPLEMENTAL TYPE CERTIFICATE ADDENDUM NO. SA2370NM

The conditions and limitations of Type Certificate Data Sheet No. A-743 apply except where superseded by the following:

This Supplemental Type Certificate Addendum, which is part of STC SA2370NM, prescribes the conditions and limitations under which the product for which the STC was issued meets the airworthiness requirements of the Civil Air Regulations. A copy of this STC Addendum is required to be maintained as part of the permanent records for the modified aircraft.

SUPPLEMENTAL TYPE CERTIFICATE HOLDER: George F. DeMartini

I. BOEING MODEL A75N1 (NORMAL CATEGORY) AS MODIFIED BY STC SA2370NM

Engine:	Pratt & Whitney R-985-AN-3
Fuel:	80/87 octane minimum grade aviation gasoline
Engine Limits:	Takeoff (1 min.) 2300 rpm (450 Hp) Maximum continuous power - 2000 rpm full throttle
Propeller and Propeller Limits:	Hamilton Standard 2D30-6101A-12 Diameter: 10'0" maximum; 8'0" minimum
Powerplant Instruments:	Mark Instruments as Follows:

Oil Temperature:
Red Line 200°F - maximum

Oil Pressure:
Red Line 50 psi rpm maximum; 100 psi minimum

Tachometer:
Red Line 2300 rpm - maximum

Fuel Pressure:
Red Line 2 psi maximum; 6 psi minimum

Cylinder Head Temperature (Washer Type Thermocouple
Red Line 550°F - maximum

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Supplemental Type Certificate

(Continuation Sheet)

April 11, 1984 *Number* SA2370NM

SUPPLEMENTAL TYPE CERTIFICATE ADDENDUM NO. SA2370NM

C. G. Range:	See Type Certificate Data Sheet A-743
Maximum Weight:	See Type Certificate Data Sheet A-743
Placards:	The following placards are to be in front and in full view of the pilot:

ENGINE LIMITATIONS

TAKE-OFF

ONE MIN 450 HP - 37" HG @ 2300 RPM

METO POWER

400 HP - 30" HG @ 2000 RPM

CONDUCT COOLING CLIMBS @ 100 MPH CAS

CAUTION

DO NOT OPERATE AIRCRAFT WHEN OAT IS ABOVE 85°F

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

FAA FORM 8110-2-1 (10-69) *This certificate may be transferred in accordance with FAR 21.47.*