KE-102

United States of America

Department of Transportation — Federal Aviation Administration

Supplemental Type Certificate

Number SA2334WE

This certificate, issued to Johnston Aircraft Service

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 8 *of the* Civil Air *Regulations.*

Original Product — Type Certificate Number: A-758

Make: AERO COMMANDER (Callair)

Model: A-9, A-9B (Restricted Category Only)

Description of Type Design Change:

Installation of Jacobs R755-A2M or R755-SM engine, JAS engine mount, Grumman SR-5404/MA96K-2 propeller and associated equipment in accordance with Johnston Aircraft Service Instructions #2 and Master Drawing List No. 130, both dated 30 March 1971.

See Continuation Sheets.

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 other previously approved modifications will introduce no adverse effect upon the airworthiness of that airplane.

Supplemental Type Certificate Addendum No. SA2334WE is a part of this Certificate. A copy of this Certificate, STC Addendum No. SA2334WE, and Johnston Aircraft Service Instruction #2 dated 30 March 1971 shall be maintained as part of the permanent records for this 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: 10 March 1971

Date of issuance: 9 April 1971

Date reissued:

Date amended: 19 MAY 1972

By direction of the Administrator

(Signature)

Chief, Aircraft Engineering Division

(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)

Number SA2334WE

Date: 9 April 1971
Amended: 18 MAY 1972
STC: SA2334WE
AERO COMMANDER A-9, A-9B
(Restricted Category Only)

SUPPLEMENTAL TYPE CERTIFICATE ADDENDUM NO. SA2334WE

The conditions and limitations of Aircraft Specification No. A-758 apply except as follows:

This STC Addendum, which is a part of Supplemental Type Certificate No. SA2334WE, prescribes 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 a part of the modified aircraft's permanent records.

Supplemental Type Certificate Holder: Johnston Aircraft Service

XII. -- Model A-9, A-9B, 1 PCLM (Restricted Category Only), as modified by STC SA2334WE.

ENGINE: Jacobs R-755-A2M or R-755-SM

FUEL: 80/87 Minimum Grade Aviation Gasoline

ENGINE LIMITS:

R-755-A2M engine
For All Operations: 2200 RPM. (300 H.P.)

R-755-SM engine
Takeoff: Sea Level to 4000 ft., 2200 RPM @ 35.0" Hg (350 H.P.)
8000 ft. 2200 RPM @ 30.0" Hg (290 H.P.)
Straight line variation between points given.

Maximum Continuous: Sea Level, 2030 RPM @ 30.3" Hg (275 H.P.)
12,000 ft., 2030 RPM @ 20.0" Hg (160 H.P.)
Straight line variation between points given.

PROPELLER AND PROPELLER LIMITS:

Grumman SR-5404/MA96K-2
Hub Model: SR-5404
Blade Model: MA96K-2
Diameter: Maximum - 94 inches
Minimum - 92 inches

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PROPELLER AND PROPELLER LIMITS: (Continued)	Pitch Setting at 36 inch Station - 13° (R-755-A2M engine) Pitch Setting at 36 inch Station - 15° (R-755-SM engine) Static RPM: Maximum - 2100 RPM. Minimum - 2000 RPM.
AIRSPEED LIMITS (CAS):	* V_{ne} (never exceed) 135 mph. * V_{no} (max. structural cruising) 120 mph. * V_p (maneuvering speed) 108 mph. * V_{fe} (flaps extended) 90 mph.
OIL CAPACITY:	4.4 Gallons @ Station - 13.5
MAXIMUM OPERATING ALTITUDE:	12,000 feet
POWERPLANT INSTRUMENT MARKINGS:	Tachometer: R-755-A2M engine, 2200 RPM. (Red Radial) Tachometer: R-755-SM engine, 2200 RPM. (Red Radial) 2030 RPM to 2200 RPM (Yellow Arc) 1700 RPM to 2200 RPM (Green Arc) Manifold Pressure: (R-755-SM only) 35" Hg (Red Radial) 30.3" to 35" Hg (Yellow Arc) 15" to 30.3" Hg (Green Arc) Oil Temperature Gage: Maximum 200°F. (93°C.) (Red Radial) Oil Pressure Gage: Maximum 90 psi. (Red Radial) Normal 60 to 90 psi. (Green Arc) Cylinder Head Temperature: (R-755-SM engine only) Maximum 500°F. (260°C.) (Red Radial) Fuel Pressure: R-755-A2M engine: Maximum 4 psi. (Red Radial) Normal 2.5 psi. to 4 psi. (Green Arc) Minimum 2.5 psi. (Red Radial) R-755-SM engine: Maximum 9 psi. (Red Radial) Normal 5 psi. to 9 psi. (Green Arc) Minimum 5 psi. (Red Radial)
SERIAL NUMBERS ELIGIBLE:	A-9 - 1126 through 1263, 1265 and up. A-9B - 1306 and up.

NOTE 1. A current Weight and Balance Report including list of equipment included in certificated empty weight, and loading instructions when necessary, must be in the aircraft.

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Supplemental Type Certificate

(Continuation Sheet)

Number SA2334WE

Date: 9 April 1971
Amended: 19 MAY 1972
STC: SA2334WE
AERO COMMANDER A-9, A-9B
(Restricted Category Only)

SUPPLEMENTAL TYPE CERTIFICATE ADDENDUM NO. SA2334WE (Continued)

NOTE 2. The following placard must be installed in front of and in clear view of the pilot (R-755-SM engine only):

"ENGINE OPERATING LIMITS:

TAKEOFF: SEA LEVEL TO 4000 FT., 2200 RPM @ 35.0 IN. HG. (350 H.P.)
8000 FEET 2200 RPM @ 30.0 IN. HG. (290 H.P.)
STRAIGHT LINE VARIATION BETWEEN POINTS GIVEN.

MAXIMUM CONTINUOUS: SEA LEVEL 2030 RPM @ 30.3 IN. HG. (275 H.P.)
12,000 FEET, 2030 RPM @ 20.0 IN. HG. (160 H.P.)
STRAIGHT LINE VARIATION BETWEEN POINTS GIVEN."

In addition to the above placard, the prescribed operating limitations indicated by an asterisk (*) above must also be displayed by permanent markings.

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.