



Environmental Systems

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Report No. CR-700-9

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AIRPLANE FLIGHT MANUAL SUPPLEMENT

FOR

SOCATA TBM 700

WITH

ENVIRONMENTAL CONTROL SYSTEM

REGISTRATION NO. _____

SERIAL NO. _____

This supplement shall be attached to the applicable FAA approved flight manual when a Keith Products freon air conditioning system is installed in accordance with STC SA8107SW.

The information contained herein supplements the basic manual only in those areas listed herein. For limitation, procedures, and performance information not contained in this supplement, consult the basic flight manual.

APPROVED BY:

Manager, Special Certification Office

Federal Aviation Administration
Fort Worth, Texas 76193-0190

FAA APPROVED: AUG 14 1992

REVISION 2


LOG OF REVISIONS

Original

Revision 1 September 20, 1991

Revision 2 Date: AUG 14 1992

<u>Page</u>	<u>Revision No.</u>
1 - 3	1
1 - 5	2 - Add Rev. 2 to all pages
1	2 - Deleted Reference to Kit No.'s
	- Changed: "air conditioner" to "air conditioning system"
3	2 - Changed: "airconditioning" to two words
	"two evaporators" to "the evaporator(s)"
	"evaporator motors" to "evaporator motor(s)"
	- Deleted reference to "air cond" circuit breaker callout of 15 amp

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SECTION I INTRODUCTION

The air conditioning system is electrically powered; consisting of a compressor condenser assembly located in the tail cone and the evaporator(s) mounted below the floor.

SECTION II OPERATING LIMITATIONS

- 1) Icing Conditions - activation of either the prop or wing anti-ice system automatically deactivates the air conditioner. The air conditioner can not be reactivated until both the prop and wing anti-ice have been switched to the OFF position.

SECTION III

EMERGENCY: In the event of an air condition/fan system failure or malfunction, the system should be deactivated as follows:

- 1) Air condition fan/selector switch.....OFF.

Note

The compressor, condenser and evaporator motor(s) may be deactivated by pulling the "air cond" circuit breaker. When air conditioner mode is deactivated, check that the blue advisory annunciation light is not illuminated.

ABNORMAL: Generator Failure (Generator off light on).

In the event of a generator failure in flight, the air conditioner compressor motor will automatically load shed.

- 1) The air conditioner/fan selector switch.....OFF.

Note

Check that the remaining generator load is within limits.

NORMAL: Air conditioning may be operated when ground power or aircraft electrical system is providing 28 vdc to the main buss. To operate system proceed as follows:

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- 1) Turn ON air conditioning with switch located on right side of instrument panel.
- 2) For maximum cooling, close door.
- 3) Turn OFF air conditioning with switch.

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SECTION IV
No Change.

PERFORMANCE

SECTION V
No Change.

APPENDIX

SECTION VI

WEIGHT & BALANCE

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U.S. Department
of Transportation
**Federal Aviation
Administration**

Southwest Region
Arkansas, Louisiana,
New Mexico, Oklahoma,
Texas

Fort Worth, Texas 76193-0000

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Gentlemen:

Enclosed is the FAA-approved Flight Manual Supplement dated August 14, 1992, for the installation of an environmental control system in a Socata TBM-700 aircraft in accordance with STC SA8107SW.

Sincerely,

Ron Dalton
Section Supervisor,
Special Certification

Enclosure