

Keith

KEITH PRODUCTS, L.P.

CERTIFICATION REPORT NO. CR-26-9

AIRPLANE FLIGHT MANUAL SUPPLEMENT

FOR CESSNA MODEL 206H, T206H

S/N: _____

REG: _____

WITH
KEITH PRODUCTS, L.P.
AIR CONDITIONING SYSTEM

This supplement shall be attached to the applicable FAA approved airplane flight manual when a Keith Products Air Conditioning System with refrigerant R134a is installed in accordance with STC Number **SA10144SC**.

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

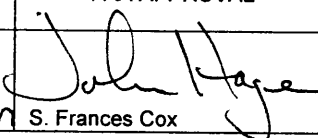
APPROVED: _____

for 
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Federal Aviation Administration
Fort Worth, TX 76193-0190

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PAGE 1 OF 7

KeithAIRPLANE FLIGHT MANUAL SUPPLEMENT FOR
CESSNA MODEL 206H, T206H
CR-26-9**LOG OF REVISIONS**

REV.	PAGES	DESCRIPTION	FAA APPROVAL	DATE
NC	1 thru 7	Original Release	 for S. Frances Cox	JUN 20 2003

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PAGE 2 OF 7

FAA APPROVED
AIRPLANE FLIGHT MANUAL SUPPLEMENT
FOR
CESSNA MODEL 206H, T206H**SECTION 1****GENERAL****DESCRIPTIVE DATA**

The air conditioning system is mechanically and electrically powered and consists of the following components:

- An engine driven compressor.
- A condenser/fan assembly mounted in the tail section area.
- An evaporator assembly mounted in the cabin between the forward seats.
- Air distribution ducting mounted on the cabin floor.
- Refrigerant hoses routed from the engine compartment, along the cabin floor, and aft to the tail section.
- Control switches mounted on the center pedestal, with associated wiring running aft with existing wiring bundles and new refrigerant plumbing.
- 3-position switch (FAN-OFF-A/C) for selecting function.
- FAN speed control switch - selects HI/MED/LO blower speeds.
- COOLING control knob - varies temperature (MIN – MAX) setting by cycling the compressor clutch.
- Dimmable Indicator light - Blue light indicates compressor operation. Includes a press test function to verify proper operation of indicator light bulb.
- Two 15-amp circuit breakers are mounted above the air conditioning control panel. They are labeled AIRCONDITIONER.

SECTION 2**LIMITATIONS****OPERATIONAL**

The Air Conditioning system must be off during takeoff, maximum performance climb and landing

PLACARDS

- (1) On center pedestal under Air Conditioning Switch Panel

TURN AIR CONDITIONER OFF
FOR T/O AND LANDING

- (2) On center pedestal above air conditioning system circuit breaker.

AIR CONDITIONER

- (3) On right hand side of engine baffle near service ports.

THIS SYSTEM USES R134a REFRIG
& POLYOLESTER OIL. REFER TO
SYSTEM MANUAL FOR SERVICING.

SECTION 3 EMERGENCY PROCEDURES**ENGINE FAILURES:****Engine Failure Immediately After Take-off**

Air Conditioning OFF

Engine Failure In Flight

Air Conditioning OFF

FIRES:**Engine Fire In Flight**

Air Conditioning OFF

Electrical Fire In Flight

Air Conditioning OFF

Cabin Fire

Air Conditioning OFF

ELECTRICAL POWER SUPPLY SYSTEMS**MALFUNCTIONS****Ammeter Shows Excessive Rate of Charge****(Full Scale Deflection)**

Air Conditioning OFF

Low Voltage Annunciator Illuminates During Flight**(Ammeter Indicates Discharge)**

Air Conditioning OFF

ICING**Inadvertent Icing Encounter**

Air Conditioning OFF

AIR CONDITIONING**Air Conditioning/Fan System Failure or
Malfunction:**

1) Air Conditioning OFF

SECTION 4 NORMAL PROCEDURES**AIR CONDITIONING**

Air Conditioning may be operated on the ground with the engine operating and the aircraft electrical system providing 28 volts DC to the main buss. Air conditioning may be operated in flight during normal climb, cruise and descent. To operate the system, proceed as follows:

- 1) Turn on Air Conditioning system by placing right-hand control switch in the AIR COND position.
- 2) For maximum cooling, place the FAN control switch in the HI position, place the COOLING control knob in the MAX position, and close cabin windows and baggage doors.
- 3) Turn off air conditioning system by placing right-hand control switch in the OFF position.
- 4) Airflow may be varied by selecting the FAN speed switch between HI, MED and LO positions.
- 5) Cabin air cooling may be varied by rotating the COOLING control knob between the MIN and MAX positions.
- 6) Cabin air may be recirculated without the air conditioning system operating by placing the right-hand control switch in the FAN position.
- 7) For aircraft equipped with optional propeller heat, automatic air conditioning load shed of the system's compressor clutch, condenser fan and

evaporator fan to LO will occur when the R.H. selector switch is selected to AIR COND. If in fan position, blower will default to low speed if prop deice is selected.

SECTION 5**PERFORMANCE**

No Change.

SECTION 6**WEIGHT AND BALANCE**

No change to the original weight and balance limits. See the Aircraft Weight and Balance Data, located in the Airplane Flight Manual. It includes the air conditioning system and new empty weight, C.G. and moment.

SECTION 7**AIRPLANE SYSTEMS AND DESCRIPTIONS**

The cabin fire extinguisher is relocated to the aft side of the copilot's seat near the floor. Operational procedures for the fire extinguisher remain the same.