AIR COMM CORPORATION BOULDER MUNICIPAL AIRPORT 3300 AIRPORT ROAD BOULDER, CO 80301

SIKORSKY MODEL S-76C

FLIGHT MANUAL SUPPLEMENT FOR BLEED AIR CABIN HEATER

S76H-102

FAA APPROVED

The information contained in this document is FAA approved material, which must be carried in the basic Flight Manual after the rotorcraft has been modified by installation of the cabin heater system in accordance with Air Comm Corporation, STC No. SH4057NM.

The information in this document supplements or supersedes the basic manual only in the items contained herein. For limitations, procedures, and performance data not contained in this supplement, consult the basic Flight Manual.

Bleed Air Cabin Heater

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FAA REVISED	MAY	1.4.	1998
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Bleed Air Cabin Heater

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Bleed Air Cabin Heater

Introduction

The S-76H-102 cabin heating system is a bleed air type which consists of a bleed air plumbing system, a manually operated heater control valve and a system of heater ejectors. The system general arrangement is shown by Figure 1.

The standard system consists of a flight deck heater system. An optional cabin heater system is also available.

The system is approved for installation as a supplement to the existing bleed air heater or ECU, or with the existing system removed. If the factory installed heater system is removed, the bleed air shut-off valves must be retained. In addition, the heater "low bleed air pressure" system is retained. This system includes the engine bleed low pressure switch, the heater shut-off valves, and the engine bleed air advisory light system. This system automatically shuts the heater system off, in case of low engine bleed pressure, or loss of engine power.

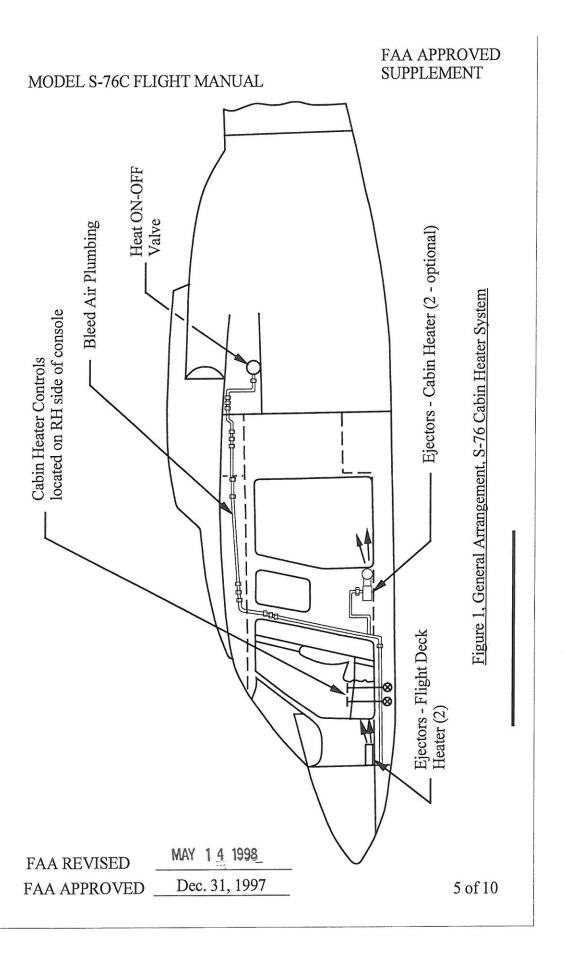
In addition, the cabin ventilation blower, inlet flapper valve, and overhead ducting system is also retained.

Bleed air flows from the engine compressors through the heater ON-OFF valves, the bleed air plumbing, and the heater control valves to the heater ejectors. The heater ejectors mix cabin air with the bleed air and exhaust the warm air to the cabin. The air is circulated by the pumping cation of the ejectors.

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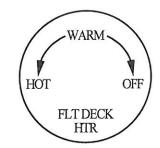


Bleed Air Cabin Heater

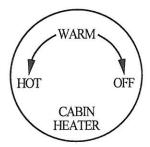
Section I

Operating Limitations

Placards and Markings:



Locate on heater control knob



Alternate heater placard if optional cabin heater is installed

DO NOT BLOCK HEATER VENT

If optional cabin heater is installed: locate on LH & RH side panels directly above heater inlets and outlets (4 total).

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Bleed Air Cabin Heater

Section I

Operating Limitations

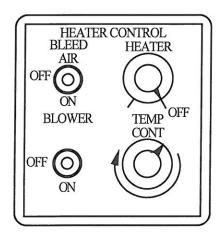
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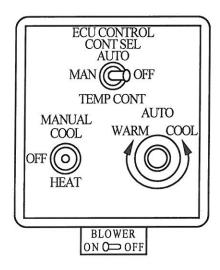
CABIN HEATER OPERATING INSTRUCTIONS

- 1. Turn Bleed Air Switch ON.
- 2. Turn Flight Deck and/or Cabin Heater ON as desired.

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Locate on center console adjacent to Heater controls.





Existing Heater or ECU Control Panels if system is retained

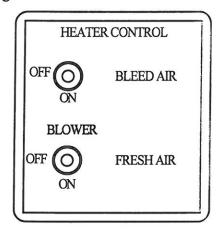
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Bleed Air Cabin Heater

Section I

Operating Limitations

Placards and Markings:



Overhead control panel if factory heater has been removed



Overhead control panel if factory ECU has been removed.

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Section II

Normal Procedures

Engine Prestart Check

Heater control bleed air switch OFF. Flight Deck and Cabin Heater valve OFF.

Before take-off

Heater control bleed air switch OFF. Flight Deck and Cabin Heater valve OFF.

In-flight Operations

Heater control bleed air switch ON as desired. Flight Deck and Cabin Heater Valve ON as desired. Operate factory installed bleed air heater of ECU as desired (if system has not been removed).

NOTE

The electrically operated bleed air valves, which are located at each engine, will automatically close if power is lost on either engine.

Descent and Landing

Heater control bleed air switch OFF. Flight Deck and Cabin Heater valve OFF.

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Section III

Emergency Procedures

Operate the heater control bleed air switch and the flight deck and cabin heater valves to OFF for any of the following emergencies:

Engine failure.
Engine over-temperature.
Insufficient power.
Onboard fire.

Section IV

Malfunction Procedures

No change.

Section V

No change in performance with heater OFF. Basic Flight Manual performance cannot be achieved with heater on.

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