

**SUBJECT: CABIN HEAT OUTLETS CONTROL (P/N 145-702104)**

The Cabin Heat Outlets Control installation allows the pilot to control the opening/closing of the cabin heat outlets through actuators located in the centre console.

**APPLICABILITY:**

This Flight Manual Supplement must be used when the Cabin Heat Outlets Control is installed on the helicopter.

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**IMPORTANT NOTE**


THE INFORMATION AND DATA CONTAINED IN THIS DOCUMENT SUPERSEDE OR SUPPLEMENT THAT CONTAINED IN THE BASIC APPROVED FLIGHT MANUAL FOR THE BK117 D-2, D-3 HELICOPTER IN THOSE AREAS LISTED HEREIN. FOR LIMITATIONS, PROCEDURES AND PERFORMANCE NOT CONTAINED IN THIS DOCUMENT REFER TO THE APPROVED FLIGHT MANUAL AND OTHER APPLICABLE APPROVED FLIGHT MANUAL SUPPLEMENTS.

SECTIONS 2, 3, 4 AND 5 OF THIS DOCUMENT COMPRISE THE APPROVED FLIGHT MANUAL SUPPLEMENT. COMPLIANCE WITH SECTION 2, LIMITATIONS, IS MANDATORY.

SECTIONS 1 AND 6 ARE UNAPPROVED AND ARE PROVIDED FOR INFORMATION ONLY.

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### CONTENTS

SECTION	TITLE	PAGE
1	GENERAL .....	4
2	LIMITATIONS .....	6
3	EMERGENCY PROCEDURES .....	6
4	NORMAL PROCEDURES .....	7
5	PERFORMANCE DATA .....	7
6	WEIGHT AND BALANCE .....	8

### FIGURES

FIGURE	TITLE	PAGE
1	Cabin Heat Outlets Control location in Centre Console .....	4

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**1. GENERAL (unapproved)**

The Cabin Heat Outlets Control allows the pilot to control the opening/closing of the cabin outlets through two push/pull (open/close) actuators located in the centre console. Refer to Figure 1.

Each actuator is linked to a Bowden Cable which is routed below the cabin floor to the cabin outlets.

In accordance with the approved Flight Manual, when the OAT is below  $-30^{\circ}\text{C}$  with the electric heater or  $-15^{\circ}\text{C}$  without, the cabin heating outlets must be blocked using fixed plates in order to prioritize all warm air to the windscreen for defogging. With the subject modification, the pilot can direct some warm air to the cabin or direct all the warm air to the cockpit based on the need for additional warm air to defog the windscreen.

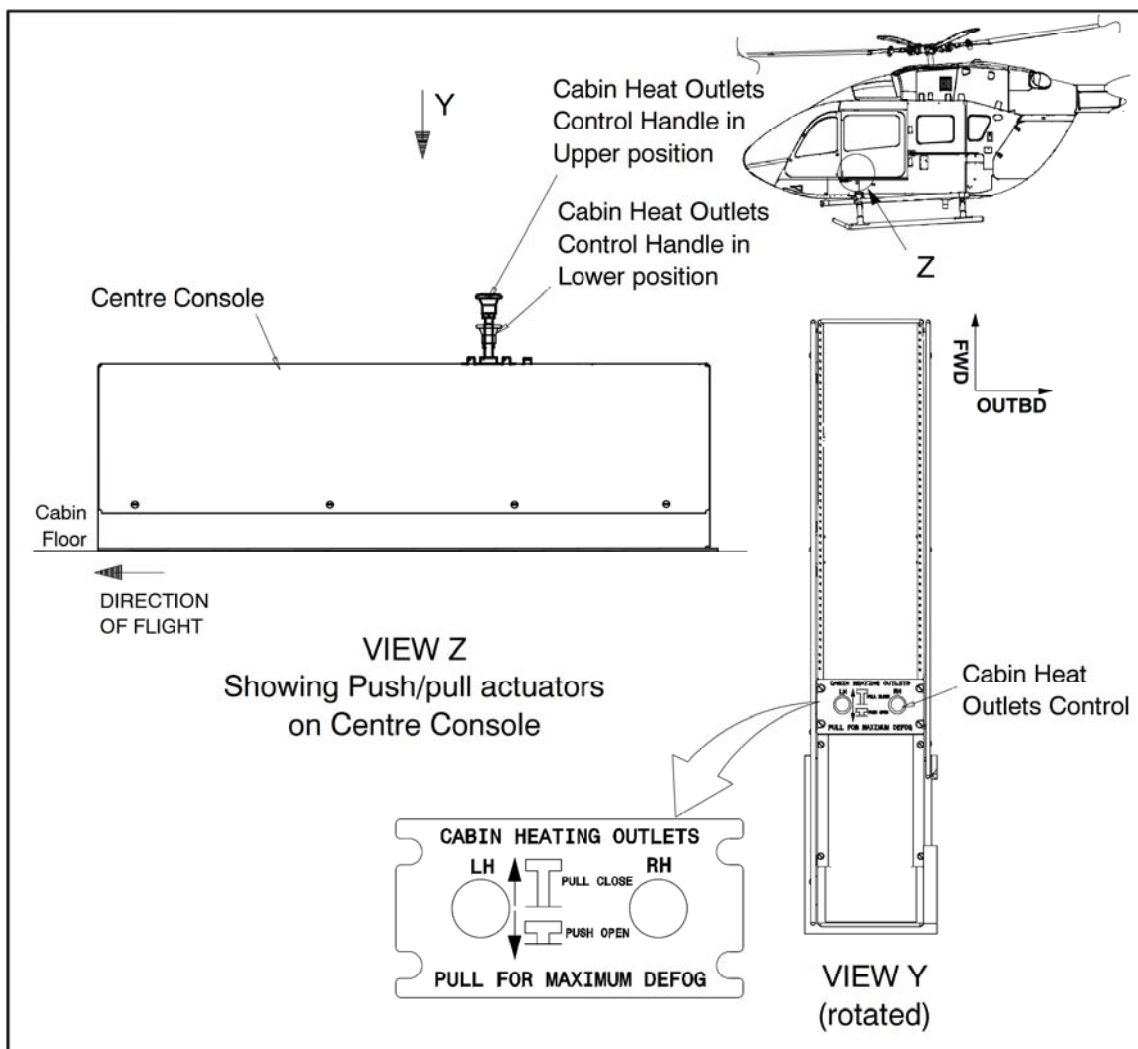


Figure 1 Cabin Heat Outlets Control location in Centre Console

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**1. GENERAL (unapproved) (continued)**

## Abbreviations and Definitions

ABBREVIATION	DEFINITION
Acc'd	Accepted
AHCA	Airbus Helicopters Canada Limited
App'd	Approved
A/W	Airworthiness
CAR	Canadian Aviation Regulations
DAPM	Design Approval Procedures Manual
°C	Degree Celsius
FMS	Flight Manual Supplement
LH	Left Hand
OAT	Outside Air Temperature
P/N	Part Number
Rev.	Revision
RH	Right Hand
STC	Supplemental Type Certificate
TCCA	Transport Canada Civil Aviation

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**2. LIMITATIONS**

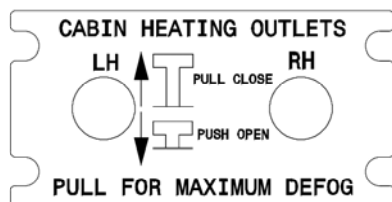
- a. With the Cabin Heat Outlets Control installed, the installation of fixed plates (part of the cold weather kit), per the approved Flight Manual section 2.9.2, is no longer required to block the cabin heat outlets at very low temperatures.

The cabin outlets shall be closed in accordance with the temperature limitations of the basic flight manual for blocked outlets as soon as any signs of fogging or frosting on the windshield occurs.

- b. Placards

There is 1 placard associated with the Cabin Heat Outlets Control installation.

- 1) Placard:



Location: Located on the Centre Console.  
 Refer to Figure 1.

**3. EMERGENCY PROCEDURES**

- a. **Cabin fire**

**IN FLIGHT**

CABIN HEAT OUTLETS  
 CONTROL  
 (Refer to Figure 1)

- Actuators Fully Pulled  
 Upper position (Outlets closed)

**4. NORMAL PROCEDURES****a. Before the first flight of each day (when OAT is  $\leq -30^{\circ}\text{C}$  with the electric heater or  $-15^{\circ}\text{C}$  without)**

The following check is to be carried out prior to the first flight of each day when the OAT is  $< -30^{\circ}\text{C}$  with the electric heater or  $-15^{\circ}\text{C}$  without:

CABIN HEAT OUTLETS CONTROL  
(Refer to Figure 1) - Correct Operation (Fully Pulled Close/  
Fully Pushed Open each actuator)

**b. Operation****1) CABIN HEAT OUTLETS CONTROL**  
(Push/pull Actuators, Refer to Figure 1)

CABIN HEAT OUTLETS CONTROL - Actuators Fully Pulled  
Upper position (Outlets closed)

CABIN HEAT OUTLETS CONTROL - Actuators Fully Pushed  
Lower position (Outlets opened)

**c. Maximum defrosting/defogging**

In addition to the procedure of the basic flight manual (4.16.1 or 9.2- 12- 4.2.3), perform:

CABIN HEAT OUTLETS CONTROL - Actuators Fully Pulled  
Upper position (Outlets closed)  
(Refer to Figure 1)

**5. PERFORMANCE DATA**

No change to existing Flight Manual.

**6. WEIGHT AND BALANCE (UNAPPROVED)**

Total changes to weight and balance resulting from this modification are covered in the applicable Instructions for Continued Airworthiness.

Items that are removed between routine operations: Not applicable

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