

**ENSTROM 480B OPERATOR'S MANUAL  
AND  
FAA APPROVED  
ROTORCRAFT FLIGHT MANUAL  
SUPPLEMENT  
BAMBI BUCKET INTERFACE KIT  
4220130-1**

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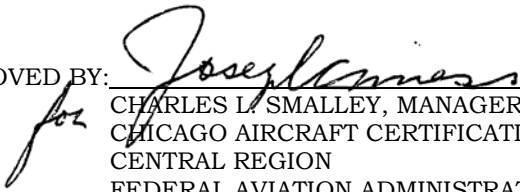
REPORT NO. 28-AC-024

HELICOPTER SERIAL NO. \_\_\_\_\_

HELICOPTER REGISTRATION NO. \_\_\_\_\_

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**THIS SUPPLEMENT MUST BE CARRIED IN THE HELICOPTER AT ALL TIMES IF EQUIPPED WITH THE BAMBI BUCKET INTERFACE KIT. CHAPTERS 1, 2, 3, AND 4 ARE FAA APPROVED.**

FAA APPROVED BY:  \_\_\_\_\_

CHARLES L. SMALLEY, MANAGER  
CHICAGO AIRCRAFT CERTIFICATION OFFICE  
CENTRAL REGION  
FEDERAL AVIATION ADMINISTRATION

FAA APPROVAL DATE: APR 30 2013

**PROPRIETARY**

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**LOG OF REVISIONS**

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APPROVED FOR THE MANAGER  
 CHICAGO AIRCRAFT CERTIFICATION OFFICE  
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**ROTORCRAFT FLIGHT MANUAL SUPPLEMENT**  
**BAMBI BUCKET INTERFACE KIT**

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## INTRODUCTION

### Intro-1. General

This supplement contains the operating instructions, procedures, and limitations for the Bambi Bucket Interface Kit, P/N 4220130-1.

The supplement is divided into two basic parts, the FAA approved RFM Supplement and Supplemental Data provided by the Enstrom Helicopter Corporation (Enstrom). Chapters 1, 2, 3, and 4 make up the FAA approved RFM Supplement. It is required by Federal Regulations that this supplement be carried in the helicopter at all times if the Bambi Bucket Interface Kit is installed.

For additional information regarding the supplement format and text emphasis or definitions, refer to the Basic Flight Manual.

### Intro-2. Vendor Publications

This manual provides information on the interface of the Bambi Bucket System to the aircraft. It does not provide specific operating instructions for the Bambi Bucket System. Refer to the latest version of the *Bambi Bucket® Operator's Manual* from SEI Industries for specific operating instructions for the Bambi Bucket System. As of the date of this supplement, SEI's address is:

SEI Industries Ltd.  
7400 Wilson Avenue  
Delta, British Columbia V4G 1E5  
Canada

Tel: (604) 946-3131  
Fax: (604) 940-9566

**Intro-3. Definition of Abbreviations**

Abbreviations noted in this supplement are listed in Table Intro-1.

**Table Intro-2. List of Abbreviations**

RFM	Rotorcraft Flight Manual
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## CHAPTER 1. OPERATING LIMITATIONS

### 1-1. General

This chapter includes operating limitations and restrictions that must be observed during ground and flight operations.

The operating limitations set forth in this chapter are the direct results of design analysis and flight tests. Compliance with these limitations will allow the pilot to derive maximum utility from the helicopter.

The following publication should be referred to for operating instructions and must be kept accessible to the flight crew at all times:

1. *Bambi Bucket® Operator's Manual* (reference Intro-2, Vendor Publications)

### 1-2. Operational Limits

Anytime an operational limit is exceeded, an appropriate entry shall be made in the aircraft log book. The entry shall state what limit or limits were exceeded and the range and time beyond the limits including any additional data that would aid maintenance personnel in the proper disposition of the entry and inspection of the aircraft.

### 1-3. Type of Operation

Refer to the basic RFM and RFM Supplement 1.

### 1-4. Weight

Refer to the basic RFM and RFM Supplement 1.

### 1-5. Center of Gravity Limitations

Refer to the basic RFM and RFM Supplement 1.

## **1-6. Airspeed Limitations**

Refer to the basic RFM and RFM Supplement 1.

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### **CAUTION**

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**Airspeed with external loads may be limited by controllability. The maximum safe airspeed for satisfactory handling characteristics is dependent upon many variables such as shape, C.G. of the load, length of the sling, location of the suspension points, and rate of climb or descent. Caution should be exercised as the onset of unsatisfactory handling characteristics may be very abrupt.**

## **1-7. Altitude Limitations**

Refer to the basic RFM.

## **1-8. Rotor Limitations**

Refer to the basic RFM.

## **1-9. Engine and Transmission Limitations**

Refer to the basic RFM.

**CHAPTER 2. NORMAL PROCEDURES****2-1. Preflight Check**

1. Perform the Preflight Safety Checklist provided in the *Bambi Bucket® Operator's Manual*.
2. Bambi Bucket Dump Switch Harness - Check secure to electrical connector. Check harness secure to the pilot's cyclic stick with the hook and pile straps.
3. Bambi Bucket Dump Harness - Check secure to electrical connector in front, left side of engine compartment. Check harness secure to cargo hook suspension cable.

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## **CHAPTER 3. EMERGENCY PROCEDURES**

### **3-1. Engine Failure**

1. Jettison Bambi bucket.

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**CHAPTER 4. PERFORMANCE DATA****4-1. General**

Refer to the basic RFM. Note however, that the climb and cruise performance may be significantly reduced dependent upon the load.

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## **CHAPTER 6. WEIGHT/BALANCE AND LOADING**

### **6-1. General**

Refer to the basic RFM and to RFM Supplement 1.

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## CHAPTER 7. SYSTEM DESCRIPTION AND OPERATION

### 7-1. Description

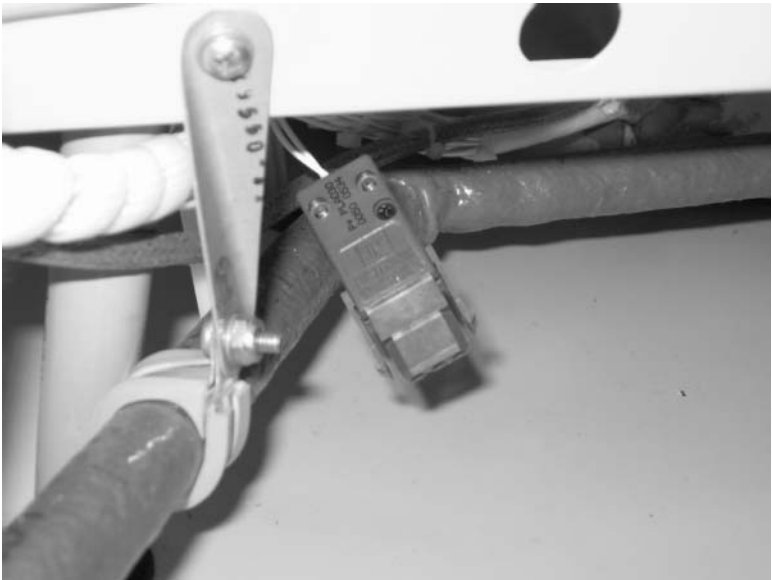
1. The Bambi Bucket Interface Kit, P/N 4220130-1, provides for installation of a Bambi Bucket® Model 8096 on the 480B when used in conjunction with the optional Cargo Hook Kit (refer to the basic RFM, Supplement 1).
2. The Bambi Bucket Interface Kit consists of a removable Dump Switch Harness, a removable Dump Harness, and a non-removable harness with circuit protection.
3. The Dump Switch Harness attaches to an electrical connector located on the lower left side of the center pedestal assembly (Figure 7-1). The harness is secured to the pilot's cyclic stick using hook and pile fastening straps (Figure 7-2).
4. The Dump Harness attaches to an electrical connector located in the front, left side of the engine compartment (Figure 7-3). The harness is routed along and secured to the front, left suspension cable of the cargo hook assembly (Figure 7-4).
5. The Bambi Bucket Interface Kit is powered by the aircraft electrical system and is protected by a 7½ amp circuit breaker (BAMBI BKT) located in the center pedestal circuit breaker panel.



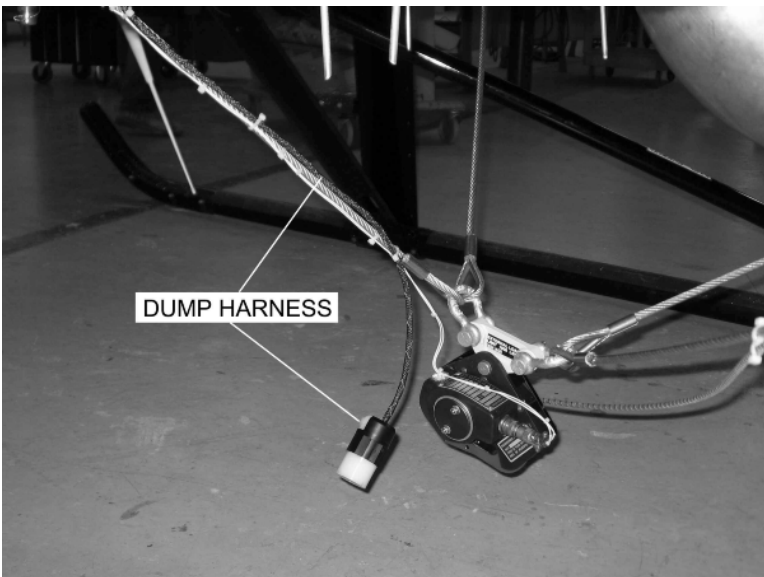
**Figure 7-1. Dump Switch Harness Connector**



**Figure 7-2. Dump Switch Harness**



**Figure 7-3. Dump Harness Connector**



**Figure 7-4. Dump Harness**

## **7-2. Operation**

Refer to the latest version of the *Bambi Bucket® Operator's Manual*.