

ALERT SERVICE BULLETIN

Bell Helicopter **TEXTRON**
A Subsidiary of Textron Inc.

NO. 206-01-95
DATE 03 06 01
PAGE 1 of 2

DATE

REV

MODELS AFFECTED: 206 A/B, TH-57 and TH-67

SUBJECT: **RESCUE HOIST, BL-16600 SERIES, BREEZE EASTERN CUSTOMER ALERT BULLETIN CAB-100-58.**

HELICOPTERS AFFECTED: All helicopters with Breeze Eastern BL-16600 series rescue hoists installed and all spare BL-16600 series Rescue Hoists.

COMPLIANCE: Refer to attached Breeze Eastern CAB-100-58.

DESCRIPTION:

Breeze Eastern has informed Bell Helicopter of an instance of an operator installing the cable cutter incorrectly in the cable guide, resulting in damage to the cable. The damage was discovered during a post flight cable inspection. Upon investigation, the cable cutter was found to be misaligned in the cable guide, creating an interference between the sharp edge of the cutter knife housing and the cable. This interference could have eventually damaged the cable to the point of breaking. Breeze Eastern Customer Service Bulletin CAB-100-55 dated 10/13/97, was distributed to the user community for the purpose of inspection of the cable cutter and guide alignment. A copy of CAB-100-55 is available from Breeze Eastern.

There have also been cases where Hoist Bumper Assemblies have been damaged due to excessive homing loads from the Hook Bumper Assembly. This has the potential to damage the Hoist Bumper Assembly reducing its load absorbing capabilities. If the Hoist Bumper Assembly is Damaged due to its material taking a compression set (crushed), it cannot properly dissipate the homing load, which can introduce shock load to the cable.

The purpose of this Customer Alert Service bulletin is to inform the BL-16600 Rescue Hoist user community of two (2) mandatory product modifications. These improvements will enhance the safety and reliability of the Rescue Hoist.

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AN APPROPRIATE ENTRY SHOULD BE MADE IN THE AIRCRAFT LOG BOOK UPON ACCOMPLISHMENT
IF OWNERSHIP OF AIRCRAFT HAS CHANGED PLEASE FORWARD TO NEW OWNER

APPROVAL:

Not Required.

MANPOWER:

Refer to attached CAB-100-58.

MATERIAL:

Refer to attached CAB-100-58, Table 1.

SPECIAL TOOLS:

None required.

WEIGHT AND BALANCE:

Not affected.

ELECTRICAL LOAD DATA:

Not affected.

REFERENCES:

Bell Helicopter Textron Service Instruction BHT-206-SI-52.

Bell Helicopter Textron Service Instruction BHT-206-SI-64.

Bell Helicopter Textron Illustrated Parts Breakdown BHT-206A/B-SERIES-IPB,
1 May 1996, revision 3 (12 February 1999).

Chapter 99-99-00, Figure 23.

Breeze Eastern Customer Alert Bulletin CAB-100-58.

PUBLICATIONS AFFECTED:

None.

ACCOMPLISHMENT INSTRUCTIONS:

Refer to Breeze Eastern Customer Alert Service Bulletin CAB-100-58.

CUSTOMER ALERT BULLETIN

BL-16600 SERIES RESCUE HOISTS

Prepared By: *Desmond J. Weakland* Date 12-23-98
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Reviewed By: *J. Selingo* Date 02-25-99
 Joseph Selingo
 Design Engineer

Approved By: *Michael Mitchell* Date 3-5-99
 Michael Mitchell
 V.P. Engineering

B	ECO 16183	11-22-99	G. Leonard			
A	ECO 15907	9-23-99	GL	D	ECO 16882	7-26-00 G. LEONARD
SYM	CHANGES-SEE CHANGE NOTICE	DATE	BY	C	ECO 16333	1-18-00 G. Leonard

SHEET NO.

A. Purpose.

The purpose of this Customer Alert Bulletin is to inform the BL-16600 Rescue Hoist user community of two (2) mandatory product modifications. One modification is a change to the Cable Guide and Cable Cutter Assemblies. The second being the installation of a new Hook Bumper and new Full-In Bumper Assembly. These improvements will enhance the safety and reliability of the Rescue Hoist.

B. Reasons.

There has been a reported instance of an operator installing the cable cutter incorrectly in the cable guide, resulting in damage to the cable, which was discovered during the post flight cable inspection. Upon investigation, the cable cutter was found to be misaligned in the cable guide, creating an interference between the sharp edge of the cutter knife housing and the cable. This interference could have eventually damaged the cable to the point of breaking. Customer Advisory Bulletin CAB-100-55, dated 10/13/97, was distributed to the user community for the purposes of inspection of the cable cutter, and guide alignment.

Also, there have been cases where Hoist Bumper Assemblies have been damaged due to excessive homing loads from the Hook Bumper Assembly. This has the potential to damage the Hoist Bumper Assembly reducing its load absorbing capabilities. If the Hoist Bumper Assembly is damaged due to its material taking a compression set (crushed), it cannot properly dissipate the homing load, which can introduce a shock load to the cable.

C. Scope.

To prevent misalignment during cable cutter installation, existing cable guides will be reworked to include the installation of a guide pin, eliminating the potential for the operator to install the cutter incorrectly (misaligned).

To reduce homing loads to the Bumper Assemblies, a new Hook Bumper and Full-In Bumper Assembly incorporating an improved bumper material, and an additional coiled compression spring will significantly reduce the potential for excessive homing loads. All parts necessary for the retrofit are included in the Kits listed on page 3, in paragraph E1, Table 1.

D. Compliance.

The modifications listed in this Customer Advisory Bulletin should be accomplished as soon as possible, and shall be complied with no later than one (1) year after receipt of this CAB. The inclusion of these modifications will eliminate the potential for damage to the bumper and cable.

E. Accomplishment Details.**1. Improved Cable Cutter Assembly Installation.**

The cable guide modification when applied to in-service units will be reworked, with the addition of a pin. The pin locates a flat on the cable cutter housing. This rework/modification only permits a one-way installation of the Cable Cutter Assembly. New production/spare cable guides will incorporate the improvement in a one piece (cored hole) casting. See Table 1 for applicable part numbers.

Table 1. BL-16600 Rescue Hoist Part Numbers with CAB-100-58 Incorporated

Hoist Assembly PN (Existing)	Hoist PN with CAB-100-58 Incorporated	Kit Part Numbers
BL-16600-110-1	BL-16600-110-3	KT-246
BL-16600-120-1	BL-16600-120-3	KT-254
BL-16600-160	BL-16600-160-2	KT-275
BL-16600-161	BL-16600-161-2	KT-275
BL-16600-170	BL-16600-170-2	KT-246
BL-16600-180	BL-16600-180-2	KT-254

2. New Cable Cutter Assembly.

The new Cable Cutter Assembly incorporates a flat on the cutter housing to ensure correct orientation at assembly. See Table 1 for applicable part numbers.

3. New Hook Bumper.

Provides improved materials for reducing homing loads during the full-in mode.

4. New Full-In Bumper Assembly.

Provides improved materials for reducing homing loads, as well as enhanced resistance to compression set during the full-in mode.

F. Material Information.

This change consists of a retrofitted Cable Guide, a new modified Cable Cutter, a new improved Full-In Bumper Assembly, a new Hook Bumper and a new Load Cable (Note: Load cable replacement is standard operating practice). This upgrade can be performed at Breeze-Eastern, or if supplied in Kit form, installed by a Breeze-Eastern certified Service Center.

G. Pricing.

See Table 1 on sheet 3 for appropriate Kit part numbers. The total price for upgrading the hoist at Breeze-Eastern is \$5,295. The Kit price to Breeze-Eastern authorized Service Centers is \$4,698. This price does not include the Service Center labor costs. Upgrade price is valid until March 31, 2001. Due to the large customer base for the BL-16600, please contact Breeze-Eastern, as soon as possible, to schedule your return.

Notice: Breeze-Eastern procedure is to test a Hoist Assembly upon receipt to evaluate its overall condition. If the Hoist Assembly does not pass test, the operator will be contacted to discuss any additional service required. Upon agreement, a quotation will be provided to the operator for the additional work, which would be in addition to this CAB.

For additional information pertaining to this CAB, please contact Breeze-Eastern.

Breeze-Eastern
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Union, New Jersey 07083-8198 USA
Phone Number: 908-686-4000, Extension 227, or
Toll free in the U.S and Canada 1-800-929-1919
Fax: 908-688-6495
E-mail Address: productsupport@breeze-eastern.com
Web Site Address: www.breeze-eastern.com

H. Classification.

- Mandatory change
- Safety
- Reliability
- Service Life
- Performance

I. Implementation.

- As soon as possible (no later than one (1) year after receipt of this CAB), it is imperative that this CAB be incorporated to eliminate the potential for damage to the Cable Guide, Cable Cutter, Hook Bumper, or Full-In Bumper Assemblies.
- If an operator has sold or transferred their BL-16600 Rescue Hoist, please notify Breeze-Eastern, and forward this CAB to the new operator.

BREEZE-EASTERN
A Division of
TransTechnology

December 8, 2000

To: All Users of Breeze-Eastern BL-16600 Rescue Hoists

From: Michael Mitchell
Sr. Vice President, Product Support

Subject: CAB-100-58

CAB-100-58 has been written to inform Users of two mandatory product modifications. These modifications have been incorporated into two Kits to cover all models of the BL-16600. The pricing for these kits is included in the CAB. The delivery for these kits will be approximately 14 weeks after receipt of order.

We request your assistance in assuring that this information be disseminated to all users. If you know of any users or operators that could be affected by this bulletin, please forward a copy to them. Should you require additional copies, we can provide them upon request.

In order for us to maintain an accurate list of users that have received this information, please complete the section below and fax a copy to **1-908-688-6495**. If you have provided this information to any other users, please include their mailing information so that we can update our records accordingly.

We thank you in advance for your cooperation.

Received by:

Name: _____

Date: _____

Title: _____

Company: _____

Address: _____

Phone: _____

Fax: _____

E-mail _____