

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

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MAINTENANCE MANDATORY, RCS CSGLD-1860 (R1),  
ALL H-60 HELICOPTERS WITH PROVISIONS TO  
INSTALL EXTERNAL HOIST AND ALL EXTERNAL  
HOISTS MANUFACTURED BY BREEZE EASTERN

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Headquarters, Department of the Army, Washington, DC

31 December 1998

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**DISTRIBUTION STATEMENT A:** Approved for public release; distribution is unlimited.

**NOTE**

**THIS PUBLICATION IS EFFECTIVE UNTIL RESCINDED OR SUPERSEDED.**

**1. Priority Classification. Routine**

a. Aircraft in Use. Upon receipt of this Technical Bulletin (TB) the condition status symbol of the cited aircraft will be changed to a **red horizontal dash "-"**. The **red horizontal dash "-"** may be cleared when the procedures of paragraph 8 below are completed. The affected aircraft shall be inspected as soon as practical but no later than the task/inspection suspense date. Failure to comply with the requirements of this TB within the time frame will cause the status symbol to be upgraded to a **red "X"**.

b. Aircraft in Depot Maintenance. Same as paragraph 1a.

c. Aircraft Undergoing Maintenance. Same as paragraph 1a.

d. Aircraft in Transit.

(1) Surface/Air Shipment. Within 10 hours or 14 days of arrival.

(2) Ferry Status.

(a) Inspect at final destination.

(b) Those aircraft that have a DD 250 and are at a contractor facility will be inspected prior to ferry to final destination.

**\*This TB supersedes USAAMCOM Aviation Safety Message 021746Z Nov 98, UH-60-99-ASAM-**



e. Maintenance Trainers (Category A and B). N/A

f. Component/Parts in Stock at all Levels (Depot and Others) including war reserves. Upon receipt of this Technical Bulletin the material condition tags of all items in all condition codes listed in paragraphs 6 and 7 shall be annotated to read "UH-60-99-ASAM-02, UH-60 External Hoists manufactured by Breeze Eastern not complied with."

(1) Wholesale Stock. N/A.

(2) Retail Stock. Upon receipt of this Technical Bulletin Commanders and others maintaining retail stock at installation level and below shall contact the supported Aviation Unit to perform the inspection required by paragraph 8 and the correction procedures of paragraph 9 on discrepant materiel. Disposition of discrepant materiel will be IAW paragraph 10. Report compliance with this Technical Bulletin IAW paragraph 14d(2).

g. Components/Parts in work (Depot Level and other). N/A.

**2. Task/Inspection Suspense Date.** Within next 10 flight hours/14 days or prior to next use of the External Hoist, whichever comes first.

**3. Reporting Compliance Suspense Date.** No later than 24 November 1998 per paragraph 14a of this Technical Bulletin.

#### **4. Summary of the Problem.**

a. In 1994, the Hydraulic Hoist was upgraded to the BL27100-192 configuration to reduce the probability of wire entanglements and breakage. This modification included a reduced length of the cable and a large Tension Roller. A safety of use Technical Bulletin (SOU-ATCOM-96-007) was published to inspect and upgrade all fielded units. All of the hoists in Army service were subsequently upgraded to the P/N BL27100-192 configuration by the manufacturer. On 9 May 1998, one hydraulic hoist was involved in a wire entanglement incident, QDR M 18H90252. Analysis of the QDR exhibit by the manufacturer revealed that, subsequent to the upgrade, one of the older style Tension Rollers had been installed in the hoist. DLA issued the old style Tension Roller to the unit in 1996. The electric hoist, P/N BL29900-30, Installed on the UH-60Q uses the same part number Tension Roller. The U.S Navy experienced corrosion issues at the interface of the rescue hoist arm base support and the airframe support fitting on SH-60B Aircraft. The cause of the Problem was determined to be water entrapment at the interface, mostly attributed to sealant blocking the airframe fitting drain hole. In an effort to improve cabin water integrity, some Army H-60 Aircraft did not include a drain hole in the initial installation. Elimination of the corrosion problem requires clearing the drain hole of any sealant or adding a drain hole. To maintain cabin water tight integrity. The owning units may incorporate a locally manufactured drain line kit to direct water flow outboard of the door. Contact the technical point of contact (POC) of paragraph 16a for details about this kit.

b. For manpower/downtime and funding impacts, see paragraph 12.

c. The purpose of this TB is to:

(1) Direct an inspection of all External Rescue Hoists manufactured by Breeze-Eastern to ensure that the correct Tension Rollers are installed.

(2) Inspect for corrosion and correct all External Hoist installations to allow proper drainage.

**5. End Items to be Inspected.** All H-60 with airframe provisions for mounting External Rescue Hoist and all external hoists manufactured by Breeze-Eastern.

**6. Assembly Components to be Inspected.**

NOMENCLATURE	PART NUMBER
Hydraulic Hoist	BL27100-191
Hydraulic Hoist	BL27100-192
Electric Hoist	BL29900-30

#### 7. Parts to be Inspected.

NOMENCLATURE	PART NUMBER	NATIONAL STOCK NUMBER
Shaft Assembly, Tension Roller	BL-10455	3040-01-222-5110
Airframe Hoist Base Fitting	70209-62001-101	
Hoist Support ARM	70850-22113-041	1680-01-161-8322

#### 8. Inspection Procedures.

a. If the provisions for mounting an External Hoist are on the aircraft; inspect and correct IAW paragraph 9 and report the results of the inspection IAW 14b.

b. If the unit has a paragraph 6 Hydraulic Hoist, inspect and correct IAW paragraph 9. Report the results of the inspection IAW paragraph 14b.

c. If that aircraft does not have provisions for mounting an External Hoist the inspection is complete and no report is required.

d. If the unit does not have a paragraph 6 External Hoist the inspection is complete.

**9. Correction Procedures** Contact the Technical POC in paragraph 16a VIA Telephone, E-mail, or FAX to obtain the specific instructions for inspection/correction of the mounting provisions and/or Hydraulic Hoist in the request, provide the tail number(s) of aircraft that have the provisions for mounting the External Hoist, and provide the part number and serial number of each hoist on hand.

#### 10. Supply/Parts and Disposition.

a. Parts Required. Items cited in paragraph 7 may be required to replace defective items.

b. Requisitioning Instructions. Requisition replacement parts using normal supply procedures. For aircraft other than the MH-60K, the Hoist is non-standard equipment that is authorized by the AWR process and is maintained and supported through local resources. AMCOM does not logistically support these items.

c. Bulk and Consumable Materials. NA.

d. Disposition. Dispose of removed parts/components using normal supply procedures. Any of the older style Tension Rollers must be demilitarized IAW TM 1-1500-328-23.

e. Disposition of Hazardous Material. In accordance with environmental protective agency directives as implemented by your servicing environmental coordinator (AR 200-1).

#### 11. Special Tools, Jigs and Fixtures Required. N/A.

#### 12. Application.

a. Category of Maintenance. AVUM. Aircraft downtime will be charged to AVUM maintenance.

b. Estimated time required.

(1) Total of 0.25 man-hours using one person.

(2) Total of 0 hours downtime for one end item.

c. Estimated cost impact of stock fund items to the field.

NOMENCLATURE	PART NUMBER	NSN	QTY	UIC	TOTAL COST
Tension Roller	BL-10455	3040-01-222-5110	1	\$1,498.14	\$1,498.14
Hoist Support ARM	70850-22113-041	1680-01-161-8322	1	\$514.08	\$514.08
					\$2,012.22

d. TB/MWO to be Applied Prior to or Concurrently with this Inspection. N/A.

e. Publications Which Require Change as a Result of this Inspection TM 1-1520-250-23. A copy of this Technical Bulletin shall be inserted in the appropriate TM as authority to implement the change until the printed change is received. The Hoist installation is non-standard equipment on aircraft not covered by TM 1-1520-250-23. For aircraft not covered by TM 1-1520-250-23. Maintain a copy of this Technical Bulletin with TM 1-1520-270-13&P. If the unit has a hoist but does not have any Hoist maintenance information, contact the Technical POC in paragraph 16a.

### 13. References.

- a. TM 1-1520-250-23.
- b. TM 1-1500-328-23.
- c. TM 1-1520-270-13&P.

### 14. Recording and Reporting Requirements.

a. Reporting Compliance Suspense Data (Aircraft). Upon entering requirements of this Technical Bulletin on DA Form 2408-13-1 on all subject MDS aircraft, forward a priority Technical Bulletin, datafax or E-mail TO: CDR, AMCOM, ATTN: AMSAM-SF-A (SOF compliance officer), Redstone Arsenal, AL 35898-5222, IAW AR 95-1. Datafax number is DSN 897-2111 or (256) 313-2111. E-mail address is safe-adm@redstone.army.mil. The report will cite this message number, date or entry in a from 2408-13-1, the aircraft mission design series and aircraft serial numbers in numerical order.

b. Task/Inspection Reporting Suspense Date (Aircraft). Upon completion of inspection, units will forward a priority Technical Bulletin to CDR, AMCOM, ATTN: AMSAM-AR-E-I-C-U, Redstone Arsenal, AL 35898-5222. The report will cite this message number, date of inspection, aircraft serial number, aircraft and component hours, and results off the inspection. Inspection and reports will be completed no later than 14 days after task/inspection suspense date. Negative report is not required.

c. Reporting Technical Bulletin Receipt (Spares). N/A.

d. Task/Inspection Reporting Suspense Date (Spares).

(1) Materiel in Wholesale Depot Storage. N/A.

(2) Materiel in Retail Storage. Report the quantity inspected by condition code and the resulting condition code. Report by E-mail or datafax and provide local point of contact.

e. The following forms are applicable and are to be completed in accordance with DA PAM 738-751,15 June 1992:

#### NOTE

**ULLS-A Users will use the Applicable "E" forms.**

- (1) DA Form 2408-5-1, Equipment Modification Record (Hoist).
- (2) DA Form 2408-13, Aircraft Status Information Record.
- (3) DA Form 2408-13-1, Aircraft Inspection and Maintenance Record.
- (4) DA Form 2408-15, Historical Record for Aircraft.

15. Weight and Balance. N/A.

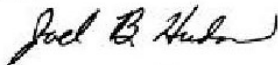
16. Points of Contact.

- a. Technical point of contact for this TB is Mr. Jay Merkel, AMSAM-AR-E-I-CU. Address questions to Larry Moosman at DSN 897-4914 or (256) 313-4914. Datafax is DSN 897-4923 or (256) 313-4923. E-mail is moosmanlg@uhpo.redstone.army.mil",.
- b. Logistical point of contact for this TB is Mr. Joe Hoover, AMSAM-DSA-UH-L, DSN 645-7898 or (256) -955-7898, datafax is DSN 645-6590 or (256) 955-6590. E-mail is hoover-jl@redstone.army.mil".
- c. Wholesale materiel point of contact (Spares) is Mr. Dan Delao, AMSAM-MMC-VS-UB, DSN 897-1303 or (256) 313-1303, datafax is DSN 897-1563 or (256) 313-1563. E-Mail is "delao-dt@ex-change1.redstone.army.mil".
- d. Forms and Records point of contact for this TB is Ms. Ann Waldeck, AMSAM-MMC-RE-FF, DSN 746-5564 or (256) 876-5564, datafax is DSN 746-4904 or (256) 876-4904. E-mail is waldeck-ab@redstone.army.mil".
- e. Safety point of contact for this TB is Mr. Ed Goad, AMSAM-SF-A, DSN 897-2095 or (256) 313-2095, datafax is DSN 897-2111 or (256) 313-2111. E-Mail "goad-er@redstone.army.mil".
- f. Foreign Military Sales (FMS) recipients requiring clarification of action advised by this TB should contact CW5 Joseph L. Wittstrom, Security Assistance Management, AMSAM-SA, DSN 897-0681 or (256) 313-0681. E-mail is "wittstrom-jl@redstone.army.mil" or Mr. Ronnie W. Sammons, AMSAM-SA-CS-NF, DSN 897-0869 or (256) 313-0869. Datafax is DSN 897-0411 or (256) 313-0681. E-Mail is "sammons-rw@redstone.army.mil" (Huntsville, AL is GMT minus 6 hrs).
- g. After hours contact AMCOM Command Operations Center (COC) DSN 897-2066/7 or (256) 313-2066/7.

**17. Reporting of Errors and Recommending Improvements.** You can help improve this TB. You may submit your recommended changes by E-mail directly to ls-lp@redstone.army.mil. A reply will be furnished to you. Instructions for sending an electronic 2028 may be found at the back of this manual.

By Order of the Secretary of the Army:

Official:



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**DISTRIBUTION:**

To be distributed in accordance with Initial Distribution No. (IDN) 313780 requirements for TB 1-1520-237-20-207.

The following format must be used if submitting an electronic 2028. The subject line must be exactly the same and all fields must be included; however only the following fields are mandatory: 1, 3, 4, 5, 6, 7, 8, 9, 10, 13, 15, 16, 17, and 27.

From: "Whomever" <whomever@avma27.army.mil>  
To: <mpmt%avma28@st-louis-emh7.army.mil>

Subject: DA Form 2028

1. **From:** Joe Smith
2. **Unit:** home
3. **Address:** 4300 Park
4. **City:** Hometown
5. **St:** MO
6. **Zip:** 77777
7. **Date Sent:** 19-OCT-93
8. **Pub no:** 55-2840-229-23
9. **Pub Title:** TM
10. **Publication Date:** 04-JUL-85
11. **Change Number:** 7
12. **Submitter Rank:** MSG
13. **Submitter FName:** Joe
14. **Submitter MName:** T
15. **Submitter LName:** Smith
16. **Submitter Phone:** 123-123-1234
17. **Problem:** 1
18. **Page:** 2
19. **Paragraph:** 3
20. **Line:** 4
21. **NSN:** 5
22. **Reference:** 6
23. **Figure:** 7
24. **Table:** 8
25. **Item:** 9
26. **Total:** 123
27. **Text:**

This is the text for the problem below line 27.

