

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

DATE Mar 05, 2005

TO: **All Owners/Operators of Bell 206L series Helicopters**

SUBJECT: **REVISION "C" TO ALERT SERVICE BULLETIN 206L-04-127 (TAIL ROTOR BLADES 206-016-201-131, CHECK/INSPECTION OF).**

Revision "C" to this bulletin introduces two WARNINGS in the COMPLIANCE section and a PART IV that provides new skin damage limits. This revision gives also the new address for RBI Inc.

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

ALERT SERVICE BULLETIN
Bell Helicopter **TEXTRON**

A Subsidiary of Textron Inc.

NO. 206L-04-127

DATE 03-12-04

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DATE	Mar 05, 2005
REV	C

MODEL AFFECTED: 206 L Series

SUBJECT: TAIL ROTOR BLADES 206-016-201-131,
CHECK/INSPECTION OF

HELICOPTERS AFFECTED: Model 206L SERIES helicopters

[Model 206L-4 helicopter serial number 52282 and subsequent will have tail rotor blades 206-016-201-131 not affected by this Alert Service Bulletin installed at delivery.]

BLADES AFFECTED Tail rotor blades 206-016-201-131 serial numbers with the prefix CS listed below are affected:

-NOTE-

Blades with letter "V" added at the end of the serial number, as a function of Part III of this ASB, are not affected.

7000 to 7018	7841 to 8001	8440 to 8441	8838 to 8840	9621 to 9629
7020 to 7043	8003 to 8026	8443	8842 to 8881	9632 to 9642
7045 to 7050	8029 to 8061	8445 to 8447	8883 to 9032	9645 to 9651
7052 to 7132	8064 to 8117	8449 to 8606	9034 to 9139	9653 to 9673
7134 to 7246	8119	8608 to 8622	9141 to 9198	9675 to 9707
7248 to 7270	8121 to 8139	8624 to 8626	9200	9709 to 9724
7272 to 7277	8142 to 8176	8628 to 8632	9202 to 9302	9727 to 9731
7279 to 7339	8178 to 8262	8635 to 8653	9304 to 9339	9733 to 9735
7342 to 7368	8264 to 8294	8655 to 8686	9341 to 9371	9737 to 9739
7784	8298 to 8368	8690	9373 to 9411	9741 to 9748
7786	8370 to 8375	8692 to 8700	9413	9751 to 9785
7788	8378 to 8416	8703 to 8715	9415 to 9417	9787 to 9788
7790 to 7796	8419	8717 to 8722	9419 to 9496	9790 to 9792
7798 to 7819	8421	8724 to 8742	9498 to 9585	9795 to 9847
7821 to 7833	8425 to 8428	8745 to 8828	9587 to 9594	9849 to 9928
7835 to 7839	8430 to 8438	8830 to 8835	9596 to 9618	9930 to 9937

AN APPROPRIATE ENTRY SHOULD BE MADE IN THE AIRCRAFT LOGBOOK UPON ACCOMPLISHMENT
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9940 to 9942	10232	10430	10689 to 10702	10814 - 10822
9944 to 9952	10235	10432	10707	10824
9955 to 9972	10237 to 10241	10437 to 10438	10712	10825
9974 to 9989	10244 to 10245	10442 to 10445	10715	10829
9991 to 9995	10248	10458 to 10466	10730	10831
9997 to 10004	10250 to 10264	10469	10732 to 10734	10917
10006 to 10009	10266 to 10268	10470	10736	10923
10011	10270 to 10274	10474	10738 to 10739	10931
10013 to 10018	10276 to 10278	10476 to 10478	10746	10936
10021 to 10030	10280 to 10282	10480 to 10487	10750	10937
10034	10284 to 10292	10489 to 10491	10756	10940
10036 to 10057	10296	10493 to 10495	10760	10943
10061 to 10082	10300 to 10330	10497 to 10503	10761	10945
10090 to 10092	10332 to 10333	10505 to 10588	10765	10947
10094 to 10100	10335 to 10347	10591 to 10606	10770	10948
10102 to 10114	10349	10608 to 10610	10774 to 10776	10964
10116	10351 to 10359	10612 to 10620	10778	10965
10119	10363 to 10365	10623 to 10624	10781	10973
10121	10367	10631 to 10655	10783 to 10785	10982
10123 to 10134	10373 to 10374	10657 to 10669	10792	10985
10136 to 10140	10377 to 10385	10672 to 10673	10794	10986
10142 to 10144	10387 to 10408	10676 to 10678	10798	
10146 to 10172	10410	10680 to 10683	10799	
10174 to 10218	10414 to 10417	10685	10806 to 10808	
10220	10419 to 10427	10687	10811	

COMPLIANCE:

-WARNING-

For all blade serial numbers covered by this ASB, repairs that result in a need to INCREASE the trailing edge root weight package will also require to return the blade to RBI for balancing. Refer to PART III for RBI address.

-WARNING-

For all blade serial numbers covered by this ASB, the new skin damage limits given in PART IV supersede the damage limits published in all other M206A/B series publications.

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-CAUTION-

It is permissible to change from Part I a. to Part I b. inspection and vice versa. In all cases the next inspection shall be conducted within the next 3-flight hours.

-NOTE-

The operator can choose to perform PART I a. or PART I b. of this Alert Service Bulletin. PART I a. can be accomplished by the pilot or a licensed mechanic and PART I b. shall be accomplished by a licensed mechanic.

PART I a. Within the next 3-flight hours following receipt of this bulletin and every 3-flight hours thereafter.

PART I b. Within the next 12-flight hours following receipt of this bulletin and every 12-flight hours thereafter.

PART II. At the next scheduled 100 hour/Annual inspection and at every 100 hour/Annual inspection thereafter.

PART III. Not later than April 27, 2007.

PART IV. New skin damage limits apply to all blades affected by this bulletin for the life of the blade.

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DESCRIPTION:

Bell Helicopter has received three reports of skin crack in the area of the trailing edge balance weight. OSN 206L-03-44 published in January 2003 emphasized the requirement to pay particular attention for cracks in the chordwise weights area of the tail rotor blade during daily checks and scheduled inspection.

The PARTS I and II of this Alert Service Bulletin introduce a recurring (special) inspection of the skin and the balance weights for deformation or cracks.

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The PART III of this Alert Service Bulletin introduces a one-time inspection of affected blades. This inspection will act as a terminating action to this bulletin recurring inspection.

C | The PART IV of this Alert Service Bulletin introduces new skin damage limits for the blades affected by this ASB that supersede skin damage limits published in all other M206A/B series publications.

APPROVAL:

The engineering design aspects of this bulletin are Transport Canada approved.

MANPOWER:

Approximately 0.25 man-hour is required to complete PART I or II of this bulletin. Approximately 3.0 man-hours is required to remove/install the tail rotor blades. Man-hours are based on hands-on time, and may vary with personnel and facilities available

WARRANTY:

Owners/operators of Bell 206L series helicopters who comply with the instructions outlined in this bulletin and find a cracked blade or have a blade rejected after accomplishment of PART III of this ASB will be eligible for a special pro-rated warranty credit for the replacement 206-016-201-131 blade. This prorated credit will be based upon hours used to the life of the blade.

To receive this credit:

- Purchase the required part from a BHT supply source
- Comply with the instructions contained in this bulletin no later than the applicable date listed in the "Compliance" section

Owners/Operators that comply with Part III of this inspection by sending the affected blade(s) to RBI, Inc. will be eligible for a special credit based on the following:

- If the aircraft or blade is covered by a standard Bell Helicopter commercial warranty at the time of compliance (new aircraft or spare part), the inspection cost to comply with Part III of this ASB will be covered at 100%.

- If the aircraft or blade are no longer covered under a standard Bell Helicopter commercial warranty (new aircraft or spare part), the inspection cost to comply with Part III of this ASB will be covered at 60%.

To receive this credit, comply with the instruction outlined in Part III of the ASB (send the blade to RBI, Inc. along with the original Historical Service Record Card, and maintain a copy for your records). This special credit will not require a DMR to be submitted.

MATERIAL:

None required.

Consumable Material:

The following material is required to accomplish this bulletin, but may not require ordering, depending on the operator's consumable material stock levels. This material may be obtained through your Bell Helicopter Textron Supply Center.

<u>Part Number</u>	<u>Nomenclature</u>	<u>Quantity</u>	<u>Reference</u>
MILC87936TYI 5GAL	Detergent (2)	As required	C-318
31-018-13	Decal "blue diamond"	2 per blade (1)	N/A
3950 SCOTHCAL	Decal Sealer (3)	As required	C-349

Note:

1. Decal 31-018-13 "blue diamond" is stocked in roll. One foot will be provided with this Alert Service Bulletin.
2. Or equivalent aviation approved detergent.
3. Or equivalent sealant.

SPECIAL TOOLS:

None required.

WEIGHT AND BALANCE:

Not affected.

ELECTRICAL LOAD DATA:

Not affected

REFERENCES:

BHT-206L-MM-1 Maintenance Manual
BHT-206L1-MM-1 Maintenance Manual
BHT-206L3-MM-1 Maintenance Manual
BHT-206L4-MM-1 Maintenance Manual

PUBLICATIONS AFFECTED:

BHT-206L-MM-1 Maintenance Manual
BHT-206L1-MM-1 Maintenance Manual
BHT-206L3-MM-1 Maintenance Manual
BHT-206L4-MM-1 Maintenance Manual

ACCOMPLISHMENT INSTRUCTIONS:

-NOTE-

PART I a. or b. and PART II of this Alert Service Bulletin can be accomplished with the blade installed on the helicopter.

PART I a. Recurring 3-flight hour check.

-NOTE-

This check can be accomplished by the pilot or a licensed mechanic.

1. Use detergent (C-318) and thoroughly clean the area to be checked on both sides of the blade. Refer to Figure 1.
2. Check both sides of the blade at the area indicated on the Figure 1 as follows:
 - a. Visually check the skin for deformation or cracks.
 - b. If deformation or cracks are found, remove the blade from service.
 - c. Check the weights for bends or deformation.

- d. If the weights are bent or deformed, remove the blade from service.
3. If no damage is found, the blade is serviceable.
4. Make log book entries to show that the PART I a. of this Alert Service Bulletin has been accomplished.

PART I b. Recurring 12-flight hour inspection.

-NOTE-

This inspection shall be accomplished by a licensed mechanic.

1. Use detergent (C-318) and thoroughly clean the area to be inspected on both sides of the blade. Refer to Figure 1.
2. Inspect both sides of the blade at the area indicated on the Figure 1 as follows:
 - a. Visually inspect the skin for deformation.
 - b. With a 10 X power magnifying glass inspect the skin for cracks.
 - c. If skin deformation or cracks are found remove the blade from service.
 - d. Inspect the weights for bends or deformation.
 - e. If the weights are bent or deformed, remove the blade from service.
3. If no damage is found, the blade is serviceable.
4. Make log book entries to show that the PART I b. of this Alert Service Bulletin has been accomplished.

PART II. Scheduled 100 hour/Annual inspection.

1. Use detergent (C-318) and thoroughly clean the area to be inspected on both sides of the blade. Refer to Figure 1.
2. Inspect both sides of the blade at the area indicated on the Figure 1 as follows:
 - a. Visually inspect the skin for deformation.
 - b. With a 10 X power magnifying glass inspect the skin for cracks.

- c. If skin deformation or cracks are found remove the blade from service.
 - d. Inspect the weights for bends or deformation.
 - e. If the weights are bent or deformed, remove the blade from service.
3. If no damage is found, the blade is serviceable.
 4. In order to provide a quick visual reference and identify the blades affected by this ASB, apply the "blue diamond" decal provided with this ASB on both sides of the blade at the location indicated on the Figure 1. To prolong the life of the decal, apply Edge sealer on the decal. Replace missing or damaged decal as required.
 5. Make log book entries to show that the PART II of this Alert Service Bulletin has been accomplished. Clearly indicate also that the PART I a. or I b. of this Alert Service Bulletin has to be performed every 3 or 12 flight hours as directed by the compliance section.

PART III. One time inspection.

-NOTE-

Rotor Blades Inc. in Louisiana, USA is the only Bell Helicopter approved blade repair facility authorized to perform the inspection of affected blades.

-NOTE-

Before sending the blade for inspection, it is recommended to contact Rotor Blades Inc. for turn around time.

1. Remove the tail rotor blades (BHT-206L-MM, BHT-206L1-MM, BHT-206L3-MM, BHT-206L4-MM)
2. Send affected blades to the following address with a Malfunction Report:

Rotor Blades Inc.
580-A St.Etienne Road
Broussard, Louisiana 70518
Office: 337-839-2119
Fax: 337-839-2122
E-mail: sales@rotor-blades.com

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-NOTE-

Blades that pass the inspection performed by Rotor Blades Inc. will have the letter “V” added at the end of the serial number. The letter “V” stands for verified.

3. Install tail rotor blade. (BHT-206L-MM, BHT-206L1-MM, BHT-206L3-MM, BHT-206L4-MM).
4. The blade Historical Service Record will indicate that the ASB 206-04-100 Rev B PART III has been accomplished. This statement will indicate that the blade is no longer affected by this ASB.
5. After the accomplishment of PART III of this ASB, make an entry in the helicopter records indicating that the ASB 206L-04-127 Rev B PART III has been accomplished and is no longer applicable.

Part IV. New skin damage limits.

-NOTE-

Blade station 2.5 is the blade extreme root end.

1. Skin damages inboard of station 23.
 - a. No sharp dents, nicks, scribe lines, punch marks or scratches allowed.
 - b. Non-sharp dents up to .005 inch are acceptable as is. No fill or fair allowed.
2. Skin damages outboard of station 23.
 - a. Scribe lines, punch marks, scratches, etc., that do not exceed 0.002 inch deep are acceptable if polished out to a surface finish of 32 RMS or better.
 - b. Non-sharp dents not exceeding 0.010 inch deep are acceptable if filled and faired with fairing compound per 299-947-072, Type I.
 - c. Sharp dents are not permitted.

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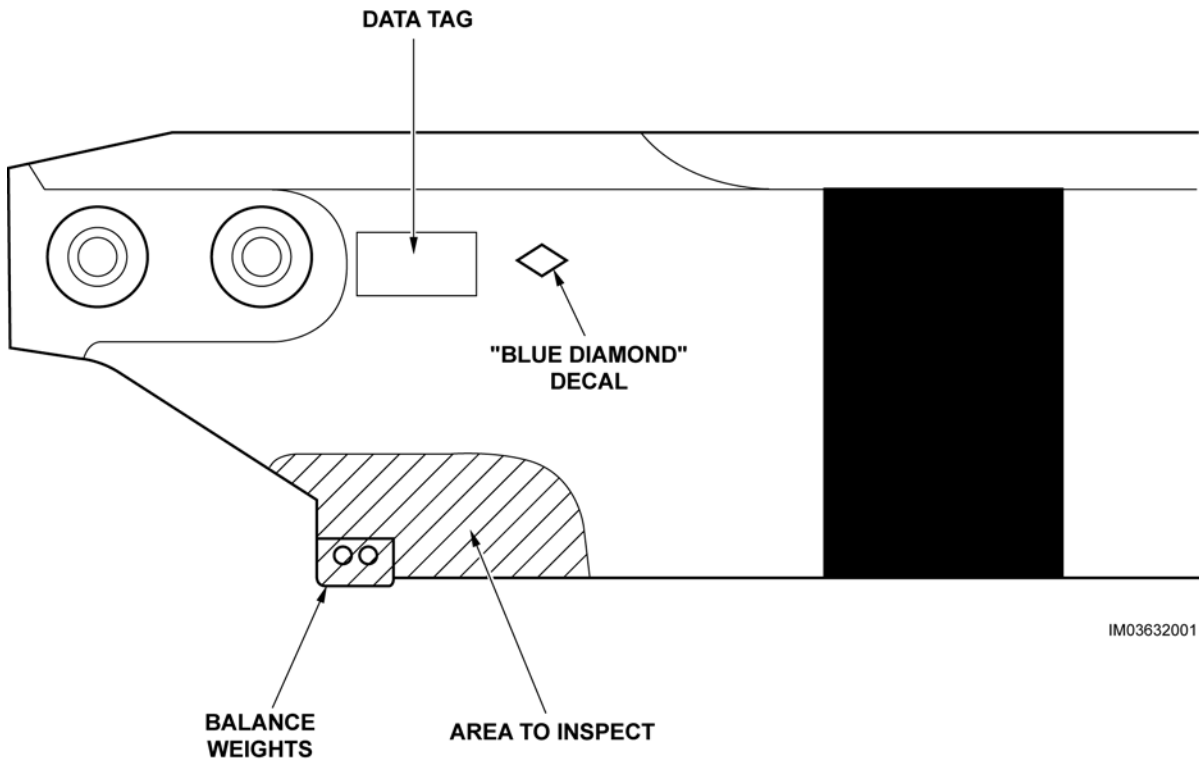


Figure 1. Tail rotor blade inspection.