



A Textron Company

ALERT SERVICE BULLETIN

505-19-11

2 April 2019

MODEL AFFECTED: 505

SUBJECT: TAIL ROTOR BLADE ROOT END, INSPECTION OF

HELICOPTERS AFFECTED: Serial numbers 65011 to 65074, 65077 to 65081, 65083 to 65122, 65124 to 65132, 65134 to 65137, 65139 to 65141, 65143, 65144, 65147, 65151 to 65160, 65163, 65165, 65167 to 65169, 65174, 65175, 65180.

[Serial 65075, 65076, 65082, 54123, 65133, 65138, 65142, 65145, 65146, 65148 to 65150, 65161, 65162, 65164, 65166, 65170 to 65173, 65176 to 65179, 65181 and sub's will have the intent of this bulletin accomplished prior to delivery.]

COMPLIANCE: Within 100 flight hours or 90 days, whichever occurs first after the release date of this bulletin.

DESCRIPTION:

Bell has become aware of a condition that affects the installation of the pitch horn assembly to tail rotor blade root end. Per the assembly instructions, sealant is applied to cover any remaining bare unpainted sections of the tail rotor blade root end. It is possible that some tail rotor blade assemblies delivered are missing this sealant.

This bulletin provides instructions to inspect for possible corrosion or damage on any exposed bare metal surfaces with a subsequent requirement to apply sealant to protect the area.

Applicability of this bulletin to any spare part shall be determined prior to its installation on an affected helicopter.

APPROVAL:

The engineering design aspects of this bulletin are Transport Canada Civil Aviation (TCCA) approved.

CONTACT INFO:

For any questions regarding this bulletin, please contact:

Bell Product Support Engineering
LIGHT Tel: 450-437-2862 / 1-800-363-8023 / productsupport@bellflight.com

MANPOWER:

Approximately 1 man-hour is required to complete this bulletin. This estimate is based on a hands-on time and may vary with personnel and facilities available.

WARRANTY:

There is no warranty credit applicable for parts or labor associated with this bulletin.

MATERIAL:

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 Supply Center.

<u>Part Number</u>	<u>Nomenclature</u>	<u>Qty (Note)</u>	<u>Reference *</u>
2010-00088-00	Sealant	2 OZ (1)	C-308
2110-00010-00	Aliphatic Naphtha	1 GAL (1)	C-305
Commercially available	Cloth, Cleaning, Low-Lint	AR	C-516

* C-XXX numbers refer to the consumables list in the BHT-ALL-SPM, Standard Practices Manual

NOTE 1: The quantity indicated is the format the product is delivered in. Actual quantity required to accomplish the instructions in this bulletin may be less.

SPECIAL TOOLS:

None required.

WEIGHT AND BALANCE:

Not affected.

ELECTRICAL LOAD DATA:

Not affected.

REFERENCES:

None.

PUBLICATIONS AFFECTED:

None affected.

ACCOMPLISHMENT INSTRUCTIONS:

1. Prepare the helicopter for maintenance.
2. Visually gain access to the root end of both tail rotor blades (Figure 2).
 - a. Clean affected area with a clean cloth (C-516) moistened with aliphatic naphtha (C-305). Dry the surfaces with a clean cloth (C-516) before the aliphatic naphtha (C-305) evaporates.
 - b. Confirm there is no exposed unpainted tail rotor blade root end surfaces adjacent to the pitch horn (Figure 1).
 - c. If surfaces are found properly sealed (Figure 2), go to step 3.
 - d. If some bare metal surfaces are found exposed (Figure 1), inspect for corrosion.
 - (1) If no corrosion is found, apply a smooth coat of sealant (C-308) to all sections of unpainted surfaces of tail rotor blade root end. Blend into pitch horn face and fair smooth (Figure 2). Allow sufficient time for sealant (C-308) to cure before flight. Go to step 3.
 - (2) If surface corrosion is present on tapered area of the aluminum butt block of the tail rotor blade (Figure 3), report findings including location, size, and depth of damage found to Product Support Engineering (PSE) at productsupport@bellflight.com. Photos would also be a benefit for evaluation. PSE will provide maintenance actions required for completion of the ASB.
3. Make an entry in the helicopter logbook and historical service records indicating compliance with this Alert Service Bulletin.



FIGURE 1 - Tail Rotor Blade Root End without Sealant



FIGURE 2 - Tail Rotor Blade Root End with Sealant Applied

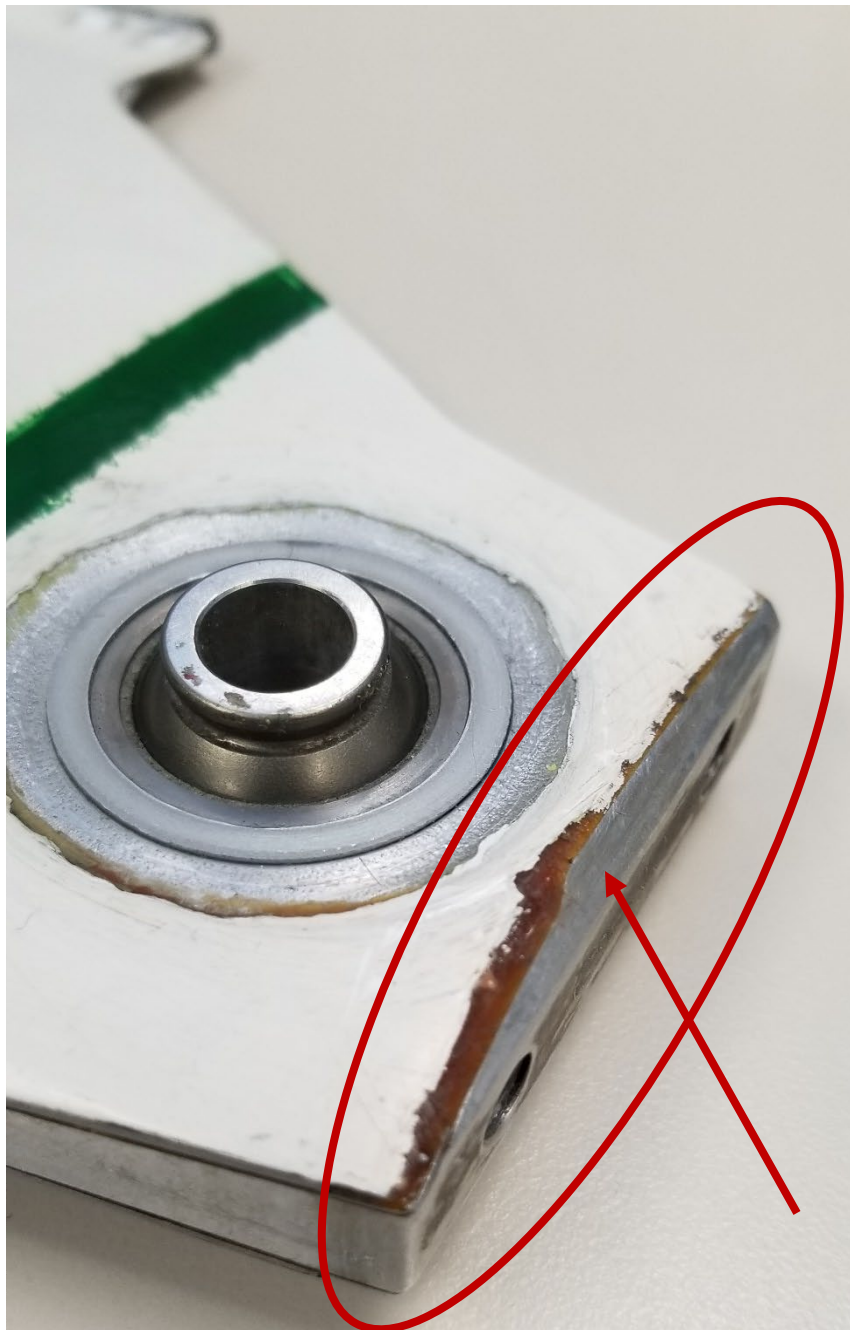


FIGURE 3 – Example of Tail Rotor Blade Root End Tapered Aluminum Butt Block