



A Textron Company

## **TECHNICAL BULLETIN**

**505-18-15**

**PSL 700000301**

19 December 2018

**MODEL AFFECTED:** 505

**SUBJECT:** CARGO HOOK ASSEMBLY ABRASION PLATES,  
INTRODUCTION OF

**HELICOPTERS AFFECTED:** Serial numbers 65013, 65017, 65024, 65030, 65031,  
65035, 65039, 65069, 65070, 65083, 65084, 65090,  
65100.

[Serial number 65015, 65040, 65114 and subsequent will have the intent of this bulletin accomplished prior to delivery.]

**COMPLIANCE:** At customer's option.

### **DESCRIPTION:**

Bell has been made aware that under heavy loading, the cargo hook faces that are in contact with the load ring have shown signs of accelerated wear. Bell is introducing abrasion strips made from stainless steel to provide a hardened sacrificial wear surface that protects the cargo hook aluminum body. This Technical Bulletin introduces abrasion plate kit 202-706-127-001 to aircraft already delivered from factory fitted with a Bell cargo hook kit. Future cargo hook kit deliveries will have the intent of this bulletin accomplished.

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 Helicopters  
Tel: 450-437-2862 / 1-800-363-8023 / productsupport@bellflight.com

## **MANPOWER:**

Approximately 2.0 man-hours are required to complete this bulletin. This estimate is based on hands-on time and may vary with personnel and facilities available.

## **WARRANTY:**

Owners / Operators of Bell Helicopters who comply with the instructions in this Bulletin will be eligible to receive replacement part Kit, listed in the bulletin. Bell Helicopter has recently introduced enhancements to the VISTA Portal which allocates specific warranty entitlement for an aircraft by serial number. The Product Service Letter (PSL) number which will be listed below the bulletin number on the introduction page is going to be a required field when submitting a claim for replacement parts, labor, and/or freight. If you receive an ASB or TB that does not have a PSL number, then there is no warranty entitlement for that bulletin.

Labor entitlement: Yes      \$170.00 USD

To receive parts, labor, under warranty:

- Comply with the instructions contained in this Bulletin no later than the applicable date in the "compliance section".
- If there is a PSL number identified in the bulletin you will be required to enter this PSL number which will validate warranty entitlement for the selected aircraft. Please ensure that you use the Bulletin tab on the warranty section in VISTA to file your claim.

**NOTE:** Customers who fail to comply with the instructions in this Bulletin before the **12th December 2019** will not be eligible for the special warranty listed above.

## **MATERIAL:**

### **Required Material:**

The following material is required for the accomplishment of this bulletin and may be obtained through your Bell Supply Center. Order kit **202-706-127-001** that consists of the following parts.

<u>Part Number</u>	<u>Nomenclature</u>	<u>Qty (Note)</u>
202-127-3	Abrasion plate	1
202-127-4	Abrasion plate	1
AN3-15A	Bolt	1
MS35265-14	Screw	8
MS21083N3	Nut self-locking	1
NAS1149F0332P	Washer	1

**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>
1650-03298-00	Safety wire, (0.020")	1 Roll (1)	C-508
2010-00118-00	Sealant	3.5OZ (1)	C-328

\* 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. The actual quantity required to accomplish the instructions in this bulletin may be less.

**SPECIAL TOOLS:**

None required.

**WEIGHT AND BALANCE:**

Negligible.

**ELECTRICAL LOAD DATA:**

Not affected.

**REFERENCES:**

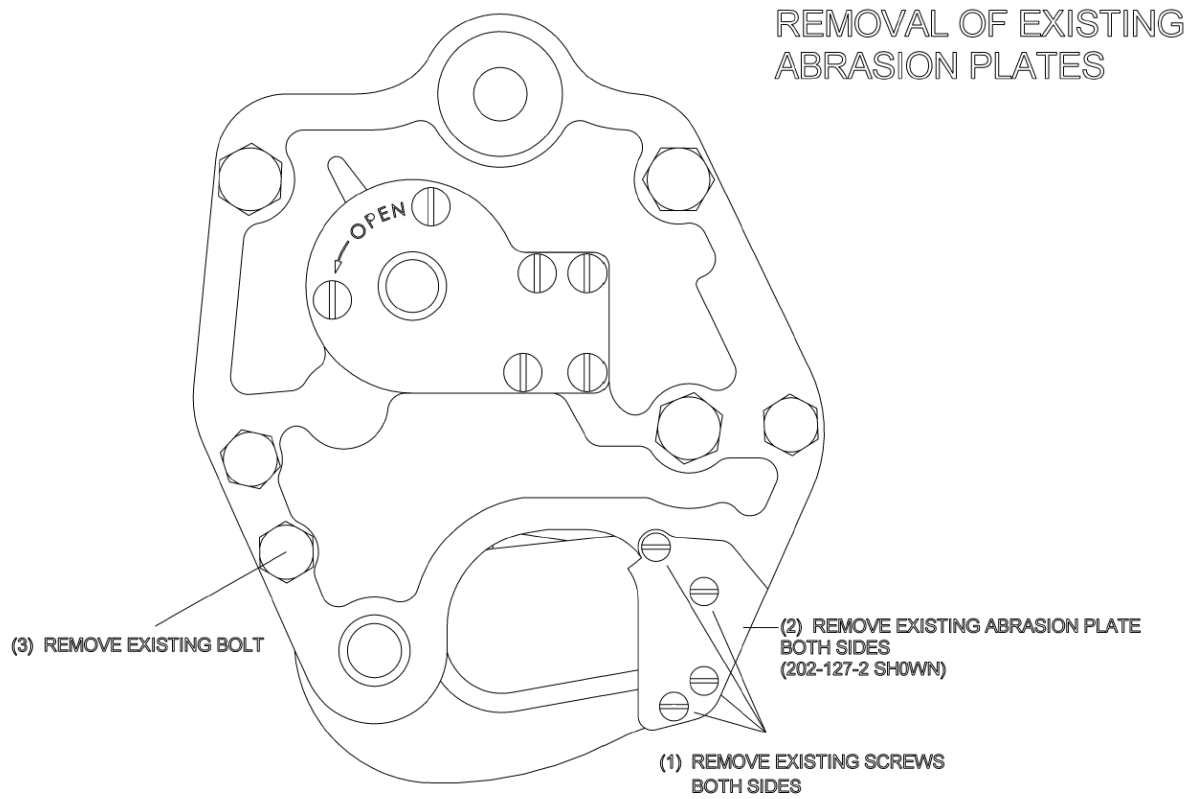
BHT-505-MM, Maintenance Manual

**PUBLICATIONS AFFECTED:**

BHT-505-IPC, Illustrated Parts Catalog, Chapter 25  
 BHT-505-MM, Maintenance Manual, Chapter 25  
 BHT-505-II-3, Installation Instructions

## **ACCOMPLISHMENT INSTRUCTIONS:**

1. Prepare the helicopter for maintenance.
2. If desired, remove the cargo hook ([DMC-505-A-25-71-01-01A-520](#)) from the helicopter to perform work on a clean table.
3. Remove existing plates and hardware (1, 2, and 3, Figure 1).
4. Ensure hook area to be reworked is clean and free of debris.
5. Install abrasion plate kit in sequence (1, 2, and 3, Figure 2).
6. Using a vibrating stylus (vibroetcher), re-identify the hook assembly as 202-100-1 (Figure 3).
7. If removed in step 2, re-install the cargo hook assembly on helicopter ([DMC-505-A-25-71-01-01A-720](#)).
8. Make an entry in the helicopter logbook and historical service records indicating compliance with this Technical Bulletin.

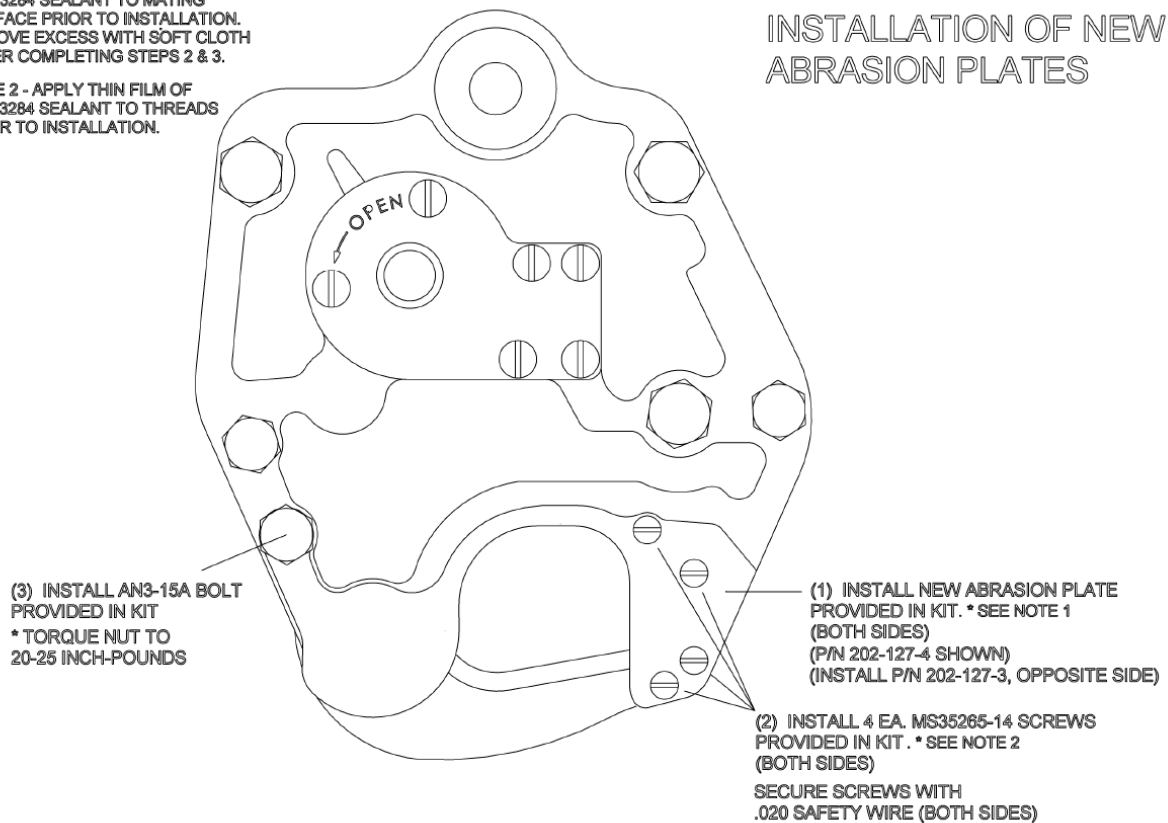


**Figure 1** – Cargo Hook Configuration - Pre Technical Bulletin

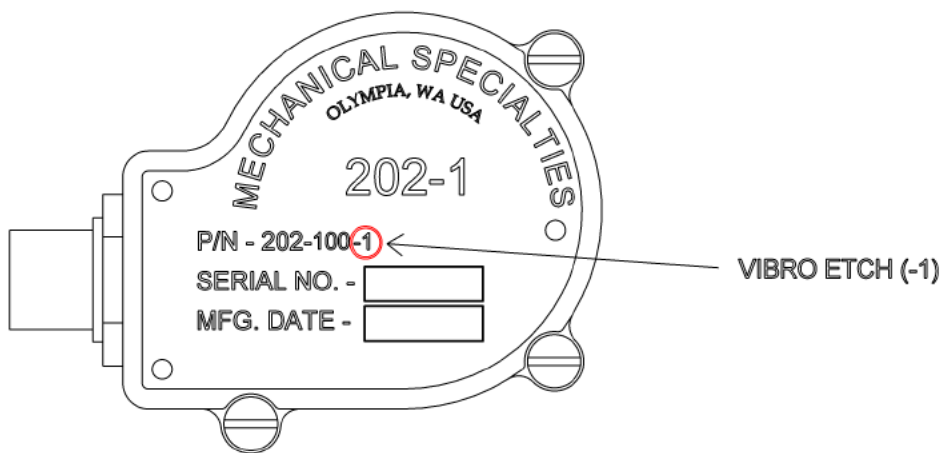
NOTE 1 - APPLY THIN FILM OF AMS 3284 SEALANT TO MATING SURFACE PRIOR TO INSTALLATION. REMOVE EXCESS WITH SOFT CLOTH AFTER COMPLETING STEPS 2 & 3.

NOTE 2 - APPLY THIN FILM OF AMS 3284 SEALANT TO THREADS PRIOR TO INSTALLATION.

## INSTALLATION OF NEW ABRASION PLATES



**Figure 2** – Cargo Hook Configuration - Post Technical Bulletin



**Figure 3** – Cargo Hook 202-100 Re-identification