



A Textron Company

## TECHNICAL BULLETIN

**222-15-177**

11 November 2015

**MODEL AFFECTED:** 222/222B

**SUBJECT:** NEW TAIL ROTOR DRIVESHAFT HANGER BEARING 222-344-606-105 AND REMOVAL OF OVERHAUL INTERVAL, INTRODUCTION OF.

**HELICOPTERS AFFECTED:** Serial numbers 47006 through 47089 and 47131 through 47156.

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

### DESCRIPTION:

This bulletin introduces a new bearing 222-344-606-105 lubricated with Mobil 28 grease (C-001) that has a 6-year shelf life from its date of manufacture and meets specification MIL-PRF 81322. This new bearing contains a seal elastomer which is orange in color to permit new bearing visual identification. It also introduces a warning decal P/N 31-116-2 which must be installed adjacent to the bearing. The bearing will have the manufacturing grease pack date marked on the surface of the preservation packaging and on the container. The bearing must be put in service within the 6-year shelf life/grease expiration date; otherwise the bearing is unserviceable and must be discarded. This bearing is a direct replacement for bearing 222-344-606-103.

This bulletin also introduces the removal of the 3-year and/or 3000-hour, whichever occurs first, overhaul requirements for the applicable hanger assembly regardless of the part number of the bearing installed.

**Part I** - Bearing 222-344-606-105 installation instruction.

**Part II** - Recommended bearing maintenance during helicopter storage.

**Part III** - Removal of the 3-year and/or 3000-hour overhaul.

**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:

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**MANPOWER:**

Approximately 2.0 man-hours are required to change each bearing on a tail rotor driveshaft hanger assembly. Man-hours are based on 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:**

**Required Material:**

The following material is required for the accomplishment of this bulletin and may be obtained through your Bell Helicopter Textron Supply Center.

<u>Part Number</u>	<u>Nomenclature</u>	<u>Qty</u>	<u>Note</u>
222-344-606-105	Bearing	A/R	1
31-116-2	Decal	A/R	1

**Note :**

1. One decal will be provided with each bearing procured from Bell spares.

**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>Qty</u>	<u>Reference *</u>
2400-11378-00	Mobil 28 Grease	A/R	C-001
299-947-117, Type II	Polyurethane Enamel	A/R	C-233
TT-N-95, TYII 1GAL	Aliphatic Naphtha	A/R	C-305
3950 SCOTCHCAL	Edge Sealer	A/R	C-349
TT-I735 ISOPROPYL	Isopropyl Alcohol	A/R	C-385
232 1IN WIDE	Masking Tape	A/R	C-426
Commercial	Low-lint Cleaning Cloth	A/R	C-516

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

**SPECIAL TOOLS:**

None required.

**WEIGHT AND BALANCE:**

Not affected.

**ELECTRICAL LOAD DATA:**

Not affected.

**REFERENCES:**

BHT-ALL-SPM, Standard Practices Manual, Chapter 8  
 BHT-222-IPB, Illustrated Parts Breakdown, Chapter 11 and 65  
 BHT-222-MM, Maintenance Manual, Chapter 11, 12, and 66  
 BHT-222-CR&O, Component Repair & Overhaul, Chapter 65

**PUBLICATIONS AFFECTED:**

BHT-222-IPB, Illustrated Parts Breakdown, Chapter 11 and 65  
 BHT-222-MM, Maintenance Manual, Chapter 5, 11, 12, and 66  
 BHT-222-CR&O, Component Repair & Overhaul, Chapter 65

**ACCOMPLISHMENT INSTRUCTIONS:**

-NOTE-

The following instructions are for replacing the driveshaft hanger bearings when condition warrants the replacement of the bearing. Bearings with a different part number can be replaced individually with bearing 222-344-606-105.

-NOTE-

Bearing shall be installed in a hanger assembly within 6 years of expiration date of the grease date manufacture as marked on the bearing packaging; otherwise the bearing is unserviceable and must be discarded. Bearing shall be immediately installed after removing the bearing from the packaging.

**Part I: Bearing 222-344-606-105 installation.**

1. Remove the tail rotor driveshaft hanger assembly (BHT-222/222B-MM-1, Chapter 66).
2. Remove decal 31-054-23DFHF (BHT-222/222B-MM-1, Chapter 11).
3. Disassemble and inspect the hanger assembly (BHT-222-CR&O-3, Chapter 65).

**CAUTION**

Only use Mobil 28 grease (C-001) for the hanger assembly installation.

-NOTE-

Mobil 28 grease (C-001) must not have a date of manufacture that has expired.

4. Install the bearing 222-344-606-105 in applicable hanger assembly (BHT-222-CR&O-3, Chapter 65).

**CAUTION**

Only use Mobil 28 grease (C-001) for the hanger assembly installation.

-NOTE-

Mobil 28 grease (C-001) must not have a date of manufacture that has expired.

5. Install the tail rotor driveshaft hanger assembly (BHT-222/222B-MM-1, Chapter 66).
6. Install the decal (1, Figure 1) adjacent to the bearing (BHT-ALL-SPM, Chapter 8).

**CAUTION**

Only use Mobil 28 grease (C-001) for the hanger assembly installation.

**-NOTE-**

Mobil 28 grease (C-001) must not have a date of manufacture that has expired.

7. Once the bearing 222-344-606-105 is in service, the greasing schedule for the hanger bearing shall be in accordance with the Maintenance Manual (BHT-222/222B-MM-1, Chapter 12).
8. Make an entry in the helicopter logbook and historical service records indicating compliance with this Technical Bulletin.

**Part II: Recommended bearing maintenance during helicopter storage.**

**CAUTION**

Only use Mobil 28 grease (C-001) for the hanger assembly installation.

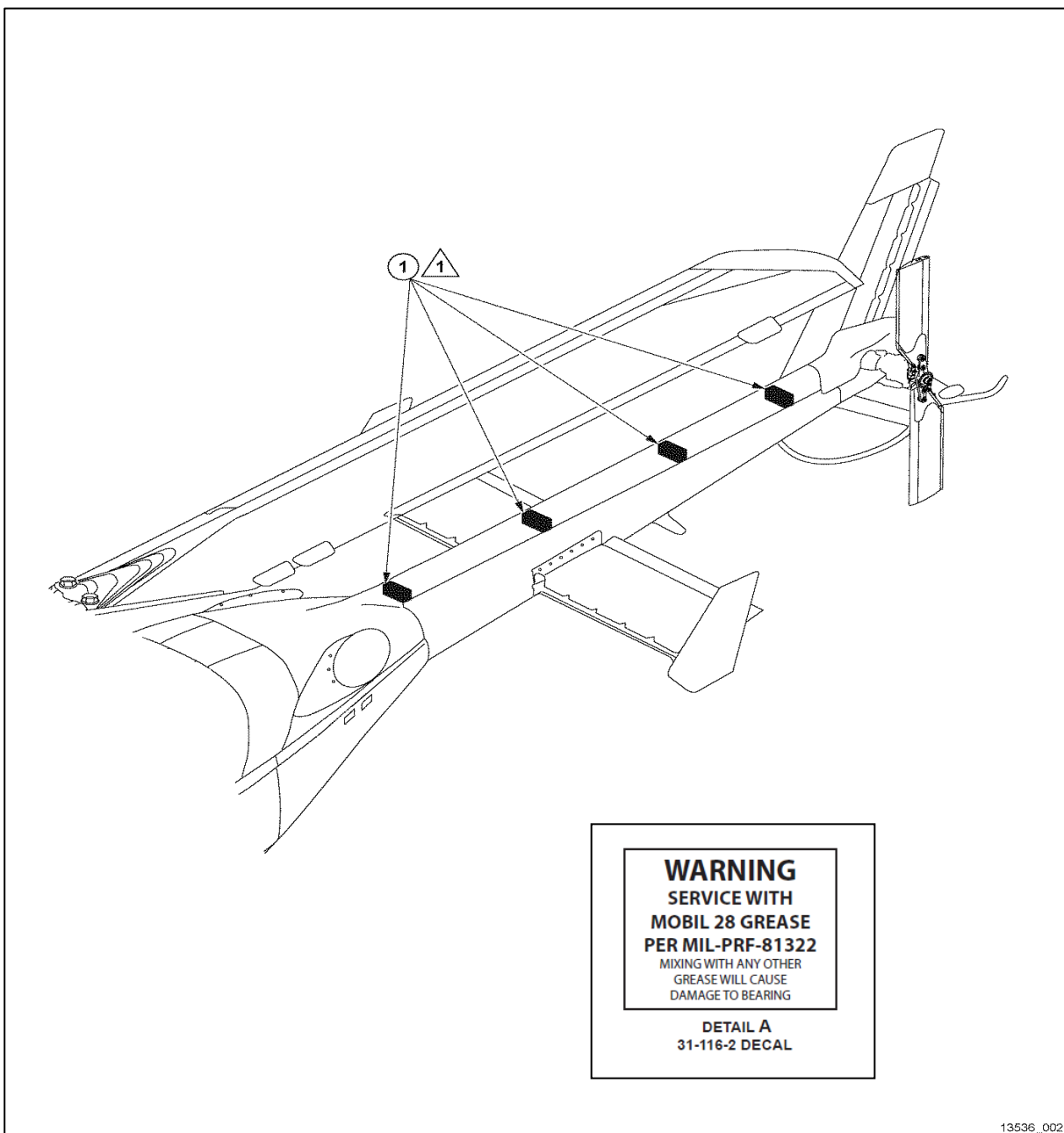
**-NOTE-**

Mobil 28 grease (C-001) must not have a date of manufacture that has expired.

1. Short, intermediate, and long term helicopter storage:
  - a. Bearing 222-344-606-105 installed on the helicopter shall be purged no less than every 90 days during helicopter storage.

**Part III: Removal of the 3-year/3000-hour overhaul requirement.**

1. Upon receipt of this bulletin, the scheduled 3-year/3000-hour, whichever occurs first, overhaul requirement is no longer required for applicable hanger assembly regardless of the part number of the bearing installed.



**Figure 1 - Hanger Bearing and Decal Location**

**Note:** 1) Install decal (1) P/N 31-116-2 adjacent to the hanger bearing assembly.