



**TECHNICAL BULLETIN**

**205-15-126**

5 June 2015

**MODEL AFFECTED:** 205A/205A-1

**SUBJECT:** TAIL ROTOR GEARBOX INPUT QUILL LEAK,  
PREVENTION OF

**HELICOPTERS AFFECTED:** Serial numbers 30001 through 30332.

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

**DESCRIPTION:**

There have been some reported cases of oil leakage from the tail rotor gearbox input quill not caused by the seal. These occurrences have been noticed on both new production gearboxes and those with some time in service. The introduction of a revised spacer, along with the addition of a packing, will prevent the oil leakage between the spacer and the bearing. Applicability of this bulletin to any spare part shall be determined prior to its installation on an affected helicopter.

This bulletin provides the instructions to install the new spacer assembly 212-040-457-101 to prevent the oil leak between the spacer and the bearing.

**APPROVAL:**

The engineering design aspects of this bulletin are FAA approved.

**CONTACT INFO:**

For any questions regarding this bulletin, please contact:

Bell Helicopter Product Support Engineering - Medium Helicopters  
Tel: 450-437-6201 / 1-800-363-8028 / psemedium@bh.com

**MANPOWER:**

No additional man hours are required when carried out at overhaul.

**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>
212-040-457-101	Spacer Assy.	1
406-340-105-103	Seal	1
AS3209-217	Packing	1
AS3209-216	Packing	1
AS3209-235	Packing	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 Helicopter Textron Supply Center.

<u>Part Number</u>	<u>Nomenclature</u>	<u>Qty</u>	<u>Reference *</u>
2010-00088-00	Sealant	AR	C-308

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

**SPECIAL TOOLS:**

Refer to applicable CR&O.

**WEIGHT AND BALANCE:**

Not affected.

**ELECTRICAL LOAD DATA:**

Not affected.

**REFERENCES:**

BHT-205A1-CR&O, Component Repair and Overhaul Manual

**PUBLICATIONS AFFECTED:**

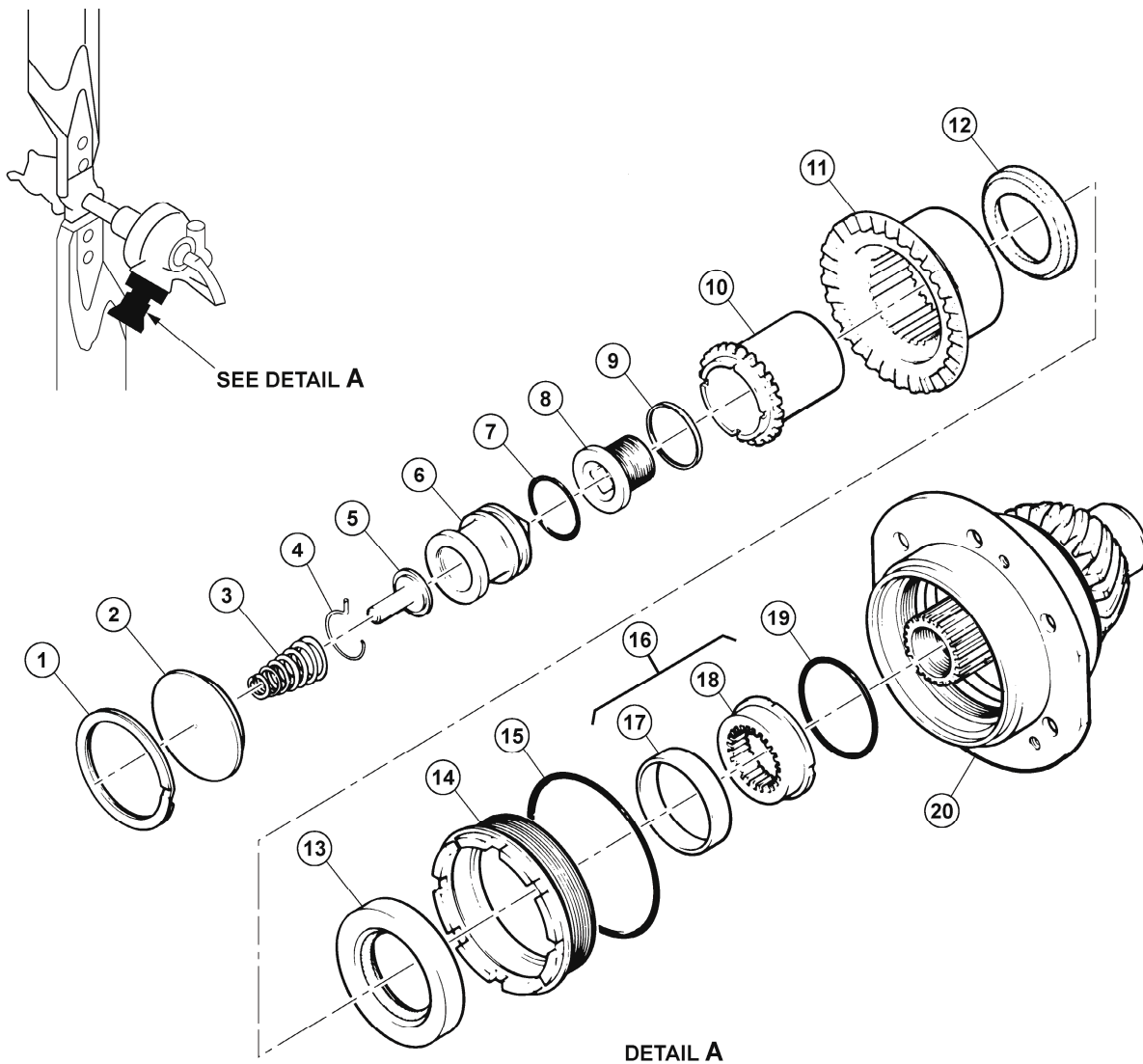
BHT-205A1-IPB, Illustrated Parts Breakdown

BHT-205A1-MM, Maintenance Manual

BHT-205A1-CR&O, Component Repair and Overhaul Manual

**ACCOMPLISHMENT INSTRUCTIONS:**

1. Disassemble the tail rotor gearbox input quill to the extent necessary to remove the spacer assembly 212-040-457-001 (Figure 1, Item 16) in accordance with the BHT-205A1-CR&O, Chapter 65.
2. Install packing P/N AS3209-217 (Figure 1, Item 19) on the pinion assembly followed by the new spacer assembly 212-040-457-101.
3. Assemble the tail rotor gearbox input quill in accordance with the BHT-205A1-CR&O, Chapter 65.
4. Make an entry in the helicopter logbook and historical service records indicating compliance with this Technical Bulletin.



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|---------------------|--------------------------------|
| 1. Retaining ring   | 11. Outer coupling             |
| 2. Plate            | 12. Seal                       |
| 3. Centering spring | 13. Seal                       |
| 4. Lock spring      | 14. Nut                        |
| 5. Spacer           | 15. Packing                    |
| 6. Retainer         | 16. Spacer and sleeve assembly |
| 7. Packing          | 17. Wear sleeve                |
| 8. Bolt             | 18. Spacer                     |
| 9. Washer           | 19. Packing                    |
| 10. Inner coupling  | 20. Sleeve assembly            |

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**Figure 1**