

TECHNICAL BULLETIN

Bell Helicopter

A Textron Company

No. 214ST-90-115

Date 10-17-90

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| DATE 04-30-2008 |
| REV A |

MODEL AFFECTED: 214ST

SUBJECT: TAILROTOR DRIVESHAFT HANGER ASSEMBLY
P/N 214-040-600, CONFIGURATION CHANGE
AND UPGRADE

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HELICOPTERS AFFECTED: Model 214ST helicopters serial number 28101 through 28200.

COMPLIANCE: At Customer's Option

DESCRIPTION:

This bulletin provides information to operators that have a requirement to upgrade the tail rotor (T/R) driveshaft hanger assemblies to the latest configuration. The helicopter certified design and spare parts configuration at time of delivery were as follows:

| <u>Helicopter Serial No.</u> | <u>T/R Driveshaft Hanger Assembly</u> |
|------------------------------|---------------------------------------|
| 28101 - 28149 | 214-040-600-101/-103 |
| 28150 - 28200 | 214-040-600-107 |
| 28150 - 28176 | 214-040-600-109 |
| 28177 - 28200 | 214-040-600-111 |
| 28201-Sub and Spares | 214-040-600-113/-115 |

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The use of earlier serial number helicopter T/R driveshaft hanger assembly configurations on a later helicopter serial number is not authorized and places the helicopter out of conformance with approved FAA type design. The use of a later serial number helicopter T/R driveshaft hanger assembly on an earlier helicopter serial number is approved.

Tables 1 and 2 list the components that comprise the T/R driveshaft hanger assembly dash number configuration differences. A dash number identification change on the T/R driveshaft hanger assembly data plate is required when upgrading an assembly configuration. Historical records must be annotated with the new part numbers and retirement times, as applicable.

APPROVAL:

The engineering design aspects of this bulletin are FAA/DER approved.

MANPOWER:

No man-hour requirements are stated, as the length of time for upgrade will vary with the upgrade required. Upgrades at time of overhaul should result in no addition to man-hour requirements normally incurred.

WARRANTY:

Warranty does not apply to this bulletin.

MATERIALS:

Reference ACCOMPLISHMENT INSTRUCTIONS. Standard replacement parts for overhaul are not included unless they are affected by a configuration difference. Materials will be available through your Bell Helicopter Supply Center.

SPECIAL TOOLS:

Refer to Model 214ST Component Repair and Overhaul Manual, Chapter 65.

WEIGHT AND BALANCE:

Not affected

ELECTRICAL LOAD DATA:

Not affected

REFERENCES:

BHT-214ST-IPB Illustrated Parts Breakdown
BHT-214ST-CR&O Component Repair and Overhaul
A.S.B. 214ST-93-63, Revision A, dated 3-4-94, "Main Driveshaft and Tail Rotor Drive System Grease Lubricated Couplings, Overtemperature Indicators, Introduction Of."

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T.B. 214ST-91-123, dated 5-7-91, "Main and Tail Rotor Driveshaft Splined Coupling and Hangers, Revision to the Special Inspection and Overhaul Requirements."

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PUBLICATIONS AFFECTED:

None affected

ACCOMPLISHMENT INSTRUCTIONS:

1. Disassemble, inspect, and assemble the T/R driveshaft hanger assembly in accordance with Chapter 65 of BHT-214ST-CR&O.
2. Upgrading the T/R driveshaft hanger assembly to a later configuration will require incorporating parts as shown in Tables 1 and 2. Parts listed are only those that differ from one configuration to another or which are affected by spare parts replacements. All parts that are to be retained in service shall be submitted to normal overhaul inspections to determine serviceability.
3. The upgraded T/R driveshaft hanger assembly must have the data plate and historical service record card re-identified to the new part number. The suffix "FM" will be added after the part dash number to indicate "Field Modified". Using a vibrating stylus, line through existing part dash number and mark new dash number + FM adjacent to original dash number. **The serial number of a field modified part will not be altered or changed.**

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Example: Upgrade the Model 214ST T/R driveshaft hanger assembly P/N 214-040-600-107 to the -113 configuration. Re-identify T/R driveshaft hanger assembly data plate and historical service record to new part number: 214-040-600-~~107~~-113FM

Retain existing serial number.

TABLE 1. MODEL 214ST TAIL ROTOR DRIVESHAFT HANGER ASSEMBLY CONFIGURATIONS

| <u>PART NUMBER</u> | <u>NOMENCLATURE</u> | <u>CONFIGURATION/QUANTITY</u> | | | <u>NOTES</u> |
|--------------------|-----------------------|-------------------------------|------|------|--------------|
| 214-040-600 | No. 1 Hanger Assembly | -101 | | | (1) |
| | | | -107 | | (2) |
| | | | | -113 | |
| 206-040-102-003 | Plate | 1 | 1 | 1 | (3) |
| 214-040-606-005 | Bearing | 1 | 1 | | (4) |
| 214-040-606-101 | Bearing | | | 1 | |
| 214-040-617-003 | Hanger | 1 | | | (5) |
| 214-040-617-103 | Hanger | | 1 | | (6) |
| 214-040-617-105 | Hanger | | | 1 | |
| 6000-1 | Temp-Plate | 2 | 2 | 2 | (7) |
| M27426-3164B | Retaining Ring | 1 | 1 | 1 | (8) |
| M27426-3181B | Retaining Ring | 1 | 1 | 1 | (9) |
| M27426-3185B | Retaining Ring | 1 | 1 | 1 | (10) |

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TABLE 2. MODEL 214ST TAIL ROTOR DRIVESHAFT HANGER ASSEMBLY CONFIGURATIONS

| <u>PART NUMBER</u> | <u>NOMENCLATURE</u> | <u>CONFIGURATION/QUANTITY</u> | | | | <u>NOTES</u> |
|--------------------|-----------------------------|-------------------------------|------|------|------|--------------|
| 214-040-600 | No. 2, 3, 4 Hanger Assembly | -103 | | | | (11) |
| | | | -109 | | | (12) |
| | | | | -111 | | (13) |
| | | | | | -115 | |
| 214-040-606-005 | Bearing | 1 | 1 | 1 | | (4) |
| 214-040-606-101 | Bearing | | | | 1 | |
| 214-040-614-003 | Coupling | 1 | 1 | 1 | | (14) |
| 214-040-614-101 | Coupling | | | | 1 | |
| 214-040-617-003 | Hanger | 1 | | | | (5) |
| 214-040-617-103 | Hanger | | 1 | | | (6) |
| 214-040-617-105 | Hanger | | | 1 | 1 | |
| M27426-3164B | Retaining Ring | 1 | 1 | 1 | 1 | (8) |

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NOTES

- (1) Superseded by P/N 214-040-600-107 (2).
- (2) Superseded by P/N 214-040-600-113.
- (3) P/N 206-040-102-101 may be used as an alternate.
- (4) Superseded by P/N 214-040-606-101.
- (5) Superseded by P/N 214-040-617-103 (6).
- (6) Superseded by P/N 214-040-617-105.
- (7) Reference A.S.B. 214ST-93-63 Revision A.
- (8) P/N M27426-3164D may be used as an alternate.
- (9) P/N M27426-3181D may be used as an alternate.
- (10) P/N M27426-3185D may be used as an alternate.
- (11) Superseded by P/N 214-040-600-109 (12).
- (12) Superseded by P/N 214-040-600-111 (13).
- (13) Superseded by P/N 214-040-600-115.
- (14) Superseded by P/N 214-040-614-101.

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