Maintenance Manual

HTCM-006

Part Number 204P2100-101 and -103
Models UH-1H, UH-1B*, TH-1F, UH-1F, UH-1P, 204B, 205A, and 205A-1
MAIN ROTOR BLADE
(Installation and Maintenance)

* with STC # SR00026DE Installed

Initial Release Date: 12/17/2013

Revision

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Note

See Section “REFERENCE DOCUMENTS” below for indicated references.

The most current revision of this document (HTCM-006) will be available on the Helicopter Technology Company (HTC) website at [www.helicoptertech.com](http://www.helicoptertech.com) under Technical Publications.
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For 500P2100-101 Only: Main Rotor Blade Root End Periodic Inspection Requirements

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PURPOSE

The purpose of this document is to both provide instructions for Maintenance and Use of HTC produced Main Rotor Blade Assemblies and to provide an index to the relevant Chapters or Sections of the applicable Maintenance Manual for the particular model of helicopter.

It is extremely important that these relevant sections of the be followed precisely.

The most current revision of this document (HTCM-006) will be available on the Helicopter Technology Company (HTC) website at www.helicoptertech.com under Technical Publications.

Note: As applicable and unless otherwise noted, all references below are to be found in:

- Technical Manual –
  Aviation and Intermediate Maintenance Instructions Army Model UH-1H/V/EH-1H/X (TM 55-1520-210-23-1).

- Helicopter Maintenance Manual –
  Supplement No. 1 to Army Model UH-1B Helicopter (Restricted Category).

- Technical Manual –
• Maintenance and Overhaul Instructions –
  Bell Model 204B – BHT-204B-M&O-1.

• Maintenance Manual –

Note: HTC has used the best possible materials for the construction of its Main Rotor Blade Assemblies.
REFERENCE DOCUMENTS


4. Federal Aviation Administration (FAA) Supplemental Type Certificate (STC) Number SR00026DE, Rotorcraft Development Corp., Corvalis, Montana, dated 06 September 2012, or later approved revision.

5. Helicopter Maintenance Manual Supplement No. 1 to Army Model UH-1B Helicopter (Restricted Category), San Joaquin Helicopters, Delano, California.


8. Maintenance and Overhaul Instructions – Bell Model 204B – BHT-204B-M&O-1, Bell Helicopter, a Textron Company, Fort Worth, Texas, Revision 10, dated 24 June 2011, or later approved revision.


11. FAA Airworthiness Directive (AD) 2018-02-08 – Applicability: 204B, 205A, and 205A-1, dated 01 February 2018

DEFINITIONS AND ABBREVIATIONS

As applicable and unless otherwise noted, all Definitions and Abbreviations are to be found in:

- Technical Manual –
  Aviation and Intermediate Maintenance Instructions Army Model UH-1H/V/EH-1H/X (TM 55-1520-210-23-1).

- Helicopter Maintenance Manual –
  Supplement No. 1 to Army Model UH-1B Helicopter (Restricted Category).

- Technical Manual –

- Maintenance and Overhaul Instructions –
  Bell Model 204B – BHT-204B-M&O-1.

- Maintenance Manual –
WEIGHT AND BALANCE

Installation of the Helicopter Technology Company (HTC) Part Number 204P2100-101 and/or -103 Main Rotor Blade is a direct replacement the Bell Helicopter - Textron Part Number 204-011-250-113 Main Rotor Blade and does not constitute a change to the Weight and Balance of the aircraft.
WARNINGS

As applicable and unless otherwise noted, all Warnings are to be found in:

- Technical Manual –
  Aviation and Intermediate Maintenance Instructions Army Model UH-1H/V/EH-1H/X (TM 55-1520-210-23-1).

- Helicopter Maintenance Manual –
  Supplement No. 1 to Army Model UH-1B Helicopter (Restricted Category).

- Technical Manual –

- Maintenance and Overhaul Instructions –
  Bell Model 204B – BHT-204B-M&O-1.

- Maintenance Manual –
INDEX

Index is to be found in the Technical Manual – Aviation and Intermediate Maintenance Instructions Army Model UH-1H/V/EH-1H/X (TM 55-1520-210-23-1), Headquarters, Department of the Army, Washington D.C. unless otherwise noted.

As applicable and unless otherwise noted, the Index is to be found in:

- Technical Manual –
  Aviation and Intermediate Maintenance Instructions Army Model UH-1H/V/EH-1H/X (TM 55-1520-210-23-1).

- Helicopter Maintenance Manual –
  Supplement No. 1 to Army Model UH-1B Helicopter (Restricted Category).

- Technical Manual –

- Maintenance and Overhaul Instructions –
  Bell Model 204B – BHT-204B-M&O-1.

- Maintenance Manual –
AIRWORTHINESS LIMITATIONS

The Airworthiness Limitations section is FAA Approved and specifies maintenance required under §§43.16 and 91.403 of the Federal Aviation Regulations unless an alternative program has been FAA Approved.

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Interchangeability and Life Limit

204P2100-101:

The Helicopter Technology Company (HTC) Part Number 204P2100-101 Main Rotor Blade is a direct replacement the Bell Helicopter - Textron Part Number 204-011-250-113 Main Rotor Blade. The HTC Main Rotor Blade is fully interchangeable and carries a life-limit of 2,600 hours.

Installation of this Blade is covered by FAA Supplemental Type Certificate (STC) Number SR02492LA.

204P2100-103:

The Helicopter Technology Company (HTC) Part Number 204P2100-103 Main Rotor Blade is a direct replacement the Bell Helicopter - Textron Part Number 204-011-250-113 Main Rotor Blade. The HTC Main Rotor Blade is fully interchangeable and carries a life-limit of 2,600 hours.

The -103 blade features a solid Titanium Lower Grip Plate.

Installation of this Blade is covered by FAA Supplemental Type Certificate (STC) Number SR02492LA.
Part Number 204P2100-101 and -103 Main Rotor Blade is applicable on the following UH-1H Models:

- JJASPP Engineering Services (R00004RC)
- Tamarack Helicopters (R00010SE)
- OAS Parts LLC (H7SO)
- Rotorcraft Dev. Corp. (H13WE)
- Southwest Florida Aviation (H6SO)
- Global Helicopter Technology (R00002RC)
- Hagglund Helicopters (H15NM)
- Arrow Falcon Exporters (R00007DE)
- Richard’s Heavylift Helo Inc. (H3SO)
- Northwest Rotorcraft (R00005SE)

Part Number 204P2100-101 and -103 Main Rotor Blade is applicable on the following UH-1B Models with STC SR00026DE Installed:

- Rotorcraft Dev. Corp. (H3NM)
- Rotorcraft Dev. Corp. (H13WE)
- San Joaquin Helicopters (H1RM)
- International Helicopters (H5SO)
- Richards Heavylift Helo, Inc. (H3SO)
- OAS Parts LLC (H7SO)

Note: On UH-1B Models with STC SR00026DE Installed, reference FAA STC Number SR00026DE and San Joaquin Helicopters Helicopter Maintenance Manual Supplement No. 1 to Army Model UH-1B Helicopter (Restricted Category).

Part Number 204P2100-101 and -103 Main Rotor Blade is applicable on the following TH-1F Models:

- Rotorcraft Dev. Corp. (H12NM)
- Tamarack Helicopters (H7NE)
- Robinson Air Crane, Inc. (R00008AT)
Part Number 204P2100-101 and -103 Main Rotor Blade is applicable on the following UH-1F Models:

- Rotorcraft Dev. Corp. (H12NM)
- Tamarack Helicopters (H7NE)
- Robinson Air Crane, Inc. (R00008AT)
- AST, Inc (H11SW)
- California Department of Forestry (H2NM)

Part Number 204P2100-101 and -103 Main Rotor Blade is applicable on the following UH-1P Models:

- Rotorcraft Dev. Corp. (H12NM)
- Robinson Air Crane, Inc. (R00008AT)

Part Number 204P2100-101 and -103 Main Rotor Blade is applicable on the following 204B Model:

- Bell Helicopter Textron, Inc. (H1SW)

Part Number 204P2100-101 and -103 Main Rotor Blade is applicable on the following 205A Model:

- Bell Helicopter Textron, Inc. (H1SW)

Part Number 204P2100-101101 and -103 Main Rotor Blade is applicable on the following 205A-1 Model:

- Bell Helicopter Textron, Inc. (H1SW)
204P2100-101 AND -103 MAIN ROTOR BLADE ASSEMBLY:
FOR UH-1H MODELS (TM 55-1520-210-23-1)
AND
FOR UH-1B MODELS WITH STC NUMBER SR00026DE INSTALLED (TM 55-1520-210-23-1)

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FOR TH-1F MODELS (T.O. 1H-1(U)F-2-1),
FOR UH-1F MODELS (T.O. 1H-1(U)F-2-1),
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1-96. Each 500 Hours or 12 Months, Whichever Occurs First

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1-96B. Deleted

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AND
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Refer to Paragraph 5-24.

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Refer to Paragraph 5-28.
5-29. Each 1200 Hours of Component Operation - Deleted

Paragraph 5-29 has been Deleted.

5-30. Each 1200 Hours or 24 Months, Whichever Comes First

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5-31. Each 24 Months of Flight Control System Bolt Operation

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HTC SPECIFIC INSPECTIONS

For 204P2100-101 Only: Main Rotor Blade Root End Periodic Inspection Requirements

REQUIRED MATERIALS

1. Naphtha or Rubbing Alcohol
2. Kim Wipes or equivalent clean lint-free wipes.
3. Bright Flashlight
4. 10x Magnifying Glass

INSPECTION INSTRUCTIONS

Within 25 Hours time-in-service (TIS) or 2 weeks, whichever occurs first, and thereafter at intervals not to exceed 25 hours TIS or 2 weeks, whichever occurs first, perform the following:

1. Clean the upper and lower exposed surfaces of each M/R Blade from an area starting at the Butt (Inboard-most) End of the Blade to three (3.0) inches outboard of the Doublers.
2. Use a 10X Magnifying Glass and Flashlight, visually inspect the M/R blade parts for a crack or corrosion.
3. If there is a crack, corrosion, an edge void, loose or damaged adhesive squeeze-out, or an edge delamination, the Blade is Not Airworthy and must be replaced with an Airworthy Blade before further flight.
4. Record compliance with these inspections in the Rotorcraft Log Book and/or in the Technical Directives and Bulletins section of the rotor blade Serviceable Component Record, as applicable.

5. For further information and rotor blade disposition, contact Helicopter Technology Company, LLC (HTC) at (310) 523-2750, or FAX (310) 523-2745.