

SERVICE BULLETIN

DATE: 19 APRIL 2019

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INSPECTION OF THE MAIN ROTOR HUB LEAD-LAG BOLTS, PART NO. 369D21220-BSC

1. PLANNING INFORMATION

A. Aircraft Affected:

All 369H, 369HE, 369HS, and 369HM helicopter models
All 369E helicopters
All 369D helicopters
All 369FF helicopters
All 500N helicopters
All 600N helicopters

B. Components Affected By This Notice:

Main Rotor Hub Lead-Lag Bolt, Part No. (PN) 369D21220, Serial Numbers (SNs):

000110-0092, 000110-0094, 000110-0118, 000110-0133, 000110-0276, 000110-0302,
000110-0338, 000110-0408, 000110-0420, 000110-0488, 000110-0564, 000110-0571,
000110-0598, 000110-0610, 000110-0636, 000110-0716, 000110-0768, 000110-0774,
000110-0800, 000110-0820, 000110-0836, 000110-0864, 000110-0880, 000110-0903,
000110-1049, 000110-1209, 000110-1239, 000110-2188, 000110-2221, 000110-2362,
000110-2370, 000110-3008, 000110-3026, 000110-3058, 000110-3098, 000110-3184,
000110-3191, 000110-3343, 000110-3409, 000110-3431, 000110-3432, 000110-3436,
000110-3442, 000110-3450, 000110-3452, 000110-3495, 000110-3534, 000110-3548,
000110-3580, 000110-3615, 000110-3675, 000110-3681, 000110-3784, 000110-3803,
000110-3814, 000110-3817, 000110-3820, 000110-3828, 000110-3846, 000110-3866,
000110-3888, 000110-3890, 000110-4243, 000110-4261, 000110-4271, 000110-4288,
000110-4293, 000110-4378, 000110-4400, 000110-4432, 000110-4438, 000110-4444,
000110-4457, 000110-4463, 000110-4479, 000110-4490, 000110-4504, 000110-4512,
000110-4533, 000110-4537, 000110-4544, 000110-4569, 000110-4570, 000110-4578,
000110-4583, 000110-4590, 000110-4603, 000110-4607, 000110-4679, 000110-4700,
000110-4703, 000110-4745, 000110-4765, 000110-4796, 000110-4845, 000110-4849,
000110-4881, 000110-4920, 000110-4974, 000110-4977, 000110-4986, 000110-5182,
000110-5230, 000110-5236, 000110-5237, 000110-5314, 000110-5353, 000110-5371,
000110-5389, 000110-5399, 000110-5430, 000110-5434, 000110-5444, 000110-5457,
000110-5498, 000110-5529, 000110-5530, 000110-5559, 000110-5586, 000110-5645,
000110-5753, 000110-5769, 000110-5822, 000110-5829, 000110-5876, 000110-5878,
000110-5907, 000110-6069, 000110-6091, 000110-6105, 000110-6182, 000110-6185,
000110-6203, 000110-6235, 000110-6280, 000110-6293, 000110-6296, 000110-6424,
000110-6432, 000110-6465, 000110-6486, 000110-6487, 000110-6501, 000110-6515,
000110-6517, 000110-6597, 000110-6632, 000110-6662, 000110-6671, 000110-7102,
000110-7116, 000110-7118, 000110-7138, 000110-7174, 000110-7178, 000110-7221,
000110-7254, 000110-7263, 000110-7339, 000110-7459, 000110-7479, 000110-7531,
000110-7532, 000110-7636, 000110-7678, 000110-7806, 000110-7886, 000110-7998,
000110-8025, 000110-8031, 000110-8033, 000110-8080, 000110-8094, 000110-8098,
000110-8142, 000110-8158

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5013-A231, 5013-B036, 5013-B057, 5013-B081, 5013-B083, 5013-B084

5013-8300, 5013-8346, 5013-8386, 5013-8405, 5013-8653, 5013-8746, 5013-8935,
5013-8955, 5013-9151, 5013-9177, 5013-9223, 5013-9291, 5013-9320, 5013-9326,
5013-9678, 5013-9699, 5013-9708, 5013-9845, 5013-9885, 5013-9899, 5013-9988,
5013-10010, 5013-10039, 5013-10068, 5013-10089, 5013-10098, 5013-10165,
5013-10167, 5013-10202, 5013-10208, 5013-10227, 5013-10259, 5013-10284,
5013-10329

5787-B059

5787-0611, 5787-0654, 5787-0661, 5787-0662, 5787-0705, 5787-0727, 5787-0773,
5787-0784, 5787-0799, 5787-1022, 5787-1039, 5787-1045, 5787-1084, 5787-1095,
5787-1641, 5787-1646, 5787-1650, 5787-1651, 5787-1656, 5787-1657, 5787-1658,
5787-1670, 5787-1746, 5787-2058, 5787-2060, 5787-2067, 5787-2076, 5787-2083,
5787-2154, 5787-2171, 5787-2185, 5787-2188, 5787-2190, 5787-3093, 5787-3094,
5787-3124, 5787-3156, 5787-3185, 5787-3806, 5787-3839, 5787-3856, 5787-3946,
5787-4003

048765-0002, 048765-0008, 048765-0023, 048765-0043, 048765-0054, 048765-0088,
048765-0145, 048765-0193, 048765-0199, 048765-0209, 048765-0224, 048765-0317,
048765-0326, 048765-0327, 048765-0328, 048765-0392, 048765-0414, 048765-0421,
048765-0430, 048765-0438, 048765-0503, 048765-0627, 048765-0661, 048765-0667,
048765-0701, 048765-0724, 048765-0744, 048765-0772, 048765-0785, 048765-0795,
048765-0828, 048765-0837, 048765-0875, 048765-0909, 048765-0920, 048765-0925,
048765-0937, 048765-0953, 048765-0957, 048765-0961, 048765-0977, 048765-0997,
048765-1026, 048765-1032, 048765-1057, 048765-1063, 048765-1076, 048765-1081,
048765-1091, 048765-1129, 048765-1134, 048765-1154, 048765-1158, 048765-1194,
048765-1210, 048765-1262, 048765-1266, 048765-1286, 048765-1287, 048765-1289,
048765-1292, 048765-1311, 048765-1324, 048765-1329, 048765-1351, 048765-1369,
048765-1372, 048765-1403, 048765-1423, 048765-1451, 048765-1458, 048765-1463,
048765-1477, 048765-1491, 048765-1508

084783-0008, 084783-0322, 084783-0336, 084783-0353, 084783-0359, 084783-0418,
084783-0419, 084783-0432, 084783-0436, 084783-0510, 084783-0537, 084783-0545,
084783-0549, 084783-0768, 084783-0860, 084783-0880, 084783-0886, 084783-0888,
084783-0891, 084783-0893, 084783-4785, 084783-4844, 084783-4955, 084783-5012

085803-0215, 085803-0217, 085803-0219, 085803-0225, 085803-0232, 085803-1356,
085803-1411, 085803-1426, 085803-1700, 085803-1730

C. Reason:

These 369 lead-lag bolts have had an unauthorized repair of its cadmium plating during service and overhaul between April 2004 and October 2018. These lead-lag bolts can have a decrease in the service life.

Failure to comply with this bulletin can cause a lead-lag bolt to be used past its effective service life.

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D. Description:

Procedures in this bulletin give owners and operators information to find the serial numbers that have been repaired and will have to be replaced by a qualified MDHI team.

E. Time of Compliance:

The instructions in this bulletin must be completed within seven (7) days after receipt of this bulletin. Bolts can be replaced at the next overhaul or service, or no later than the next twelve months after you get this bulletin. MDHI will tell the customer when the replacement bolts are available.

F. FAA Approval:

The technical design aspects of this bulletin are FAA approved.

G. Manpower:

Compliance with this bulletin will be approximately 0.25 man-hours.

H. Interchangeability:

None.

I. Points of Contact:

For further assistance, contact MDHI Field Service at:

<https://www.mdhelicopters.com/contact.html>

J. Material/Part Availability:

Contact MDHI Spare Sales for parts availability at:

<https://www.mdhelicopters.com/contact.html>

REPLACEMENT PARTS/SUPPLIES			
Nomenclature	Part No.	Qty.	Source
Main Rotor Lead-Lag Bolt	369D21220	1 to 6	MDHI

K. Warranty Policy:

Contact MDHI Warranty for prices, orders, availability, and service at:

<https://www.mdhelicopters.com/contact.html> or <https://www.mymd.aero/dashboard> or <https://www.mymd.aero/>.

The MDHI Warranty Department will give the lead-lag bolts at no cost to the operator. MDHI will also send a field maintenance team to replace the bolts.

Standard warranty policy applies.

The hours in Manpower (ref. Paragraph 1.G.) are an estimate, and are not reimbursable, unless specified in the Warranty Policy.

Additional discrepancies found over and above the specified warranty coverage is the responsibility of the customer.

L. Disposition of Parts Removed:

Return to MDHI with a completed Service Operation Report (SOR).

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SB369E-122
SB500N-060

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M. Tooling:

N/A

N. Weight and Balance:

N/A

O. Electrical Load Data:

N/A

P. Other Publications Affected:

N/A

Q. Reference Publications:

Refer to the latest revision of these publications for procedures and additional information:

CSP-RLB Rotorcraft Log Book

CSP-H-4 Periodic Inspections, Overhaul and Retirement Schedule and Weight and Balance Procedure (Basic HMI Appendix B)

CSP-H-7 Illustrated Parts Catalog

CSP-HMI-2 Basic Handbook of Maintenance Instructions – Servicing and Maintenance

CSP-IPC-4 Illustrated Parts Catalog

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2. ACCOMPLISHMENT INSTRUCTIONS

(Ref. Figure 1)

A. Find the Serial Number of the Main Rotor Hub Lead-Lag Bolt

- (1). Examine the Component Maintenance records for the serial number of each of the four, five, or six lead-lag bolts installed on a helicopter.
- (2). Examine the serial number on lead-lag bolts in storage.
- (3). If the Component Maintenance records are incomplete, look at the head of the lead-lag bolt to find the serial number.



Make sure to keep each balance weight stackup together and to record the location of each stackup during removal. Incorrect installation can cause an imbalance in the main rotor.

- (a). If necessary, remove screws (6), washers (7), nuts (9), and washers (10, 11) (ref. Figure 1).
- (b). Record or make a note of the position each stackup is removed from.
- (c). After you look for the serial number, install each stackup to the correct location.
- (4). Do a check of the lead-lag bolt serial numbers with the serial numbers shown in Paragraph 1.B.
 - (a). Tell MDHI if there is a lead-lag bolt or bolts with the Paragraph 1.B. serial numbers installed on a helicopter so MDHI can schedule a time to replace the lead-lag bolts.
- (5). If the time on the bolt is known, include the hours on the Bulletin Completed Record or in your MyMD.Aero account, or in a new Service Operation Report (SOR).

B. Compliance Record

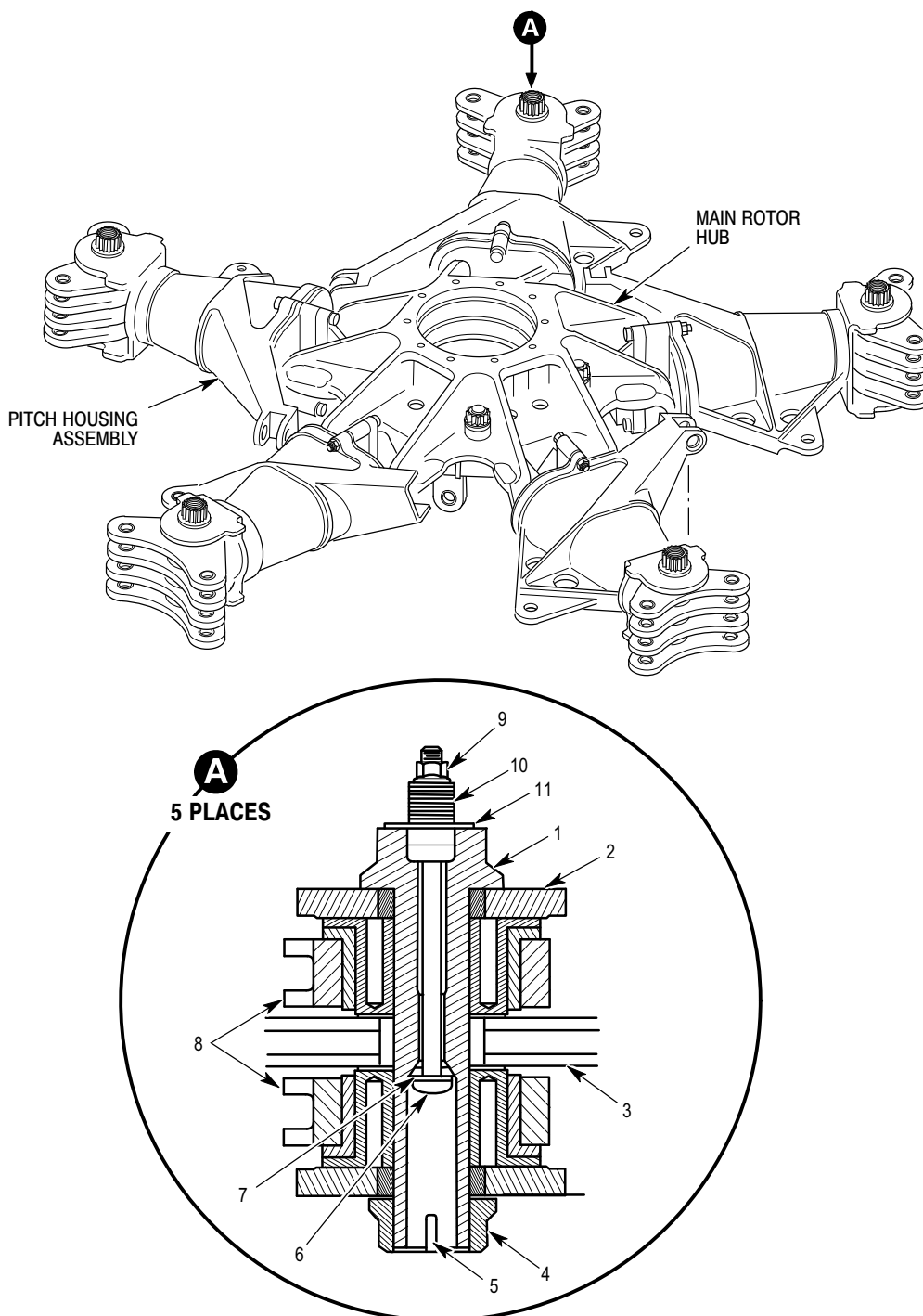
- (1). Record compliance to this Service Bulletin in the Compliance Record Log (ref. CSP-RLB-L8) of CSP-RLB Rotorcraft Log Book.
- (2). Show compliance with this Service Bulletin by one of these methods:
 - (a). Complete a Service Operation Report (SOR) at <https://www.mymd.aero/dashboard>.
 - (b). Put an entry in your <https://www.mymd.aero/> account.
 - (c). Mail a copy or e-mail a scanned copy of the Bulletin Completed Record to your MDHI Field Service Representative.

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SB88-645

Figure 1. Main Rotor Hub Lead-Lag Bolt Location and Installation

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Legend (Ref. Figure 1)

- | | |
|---|------------|
| 1. LEAD-LAG BOLT (REF. IPC, 62-20-00, FIGURE 1) | 7. WASHER |
| 2. PITCH HOUSING | 8. LINK |
| 3. HUB STRAP | 9. NUT |
| 4. NUT | 10. WASHER |
| 5. COTTER PIN | 11. WASHER |
| 6. SCREW | |

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Bulletin Completed Record

Inspection of the Main Rotor Hub Lead-Lag Bolt, PN 369D21220

MD Helicopters, Inc.
Field Service
4555 East McDowell Road
Mesa, AZ 85215-9734

Phone: 480-346-6300 or 1-480-346-6300 (International)
Website: <https://www.mdhelicopters.com/contact.html>
Or contact your Field Service Representative.

Owner/- Operator: _____	Helicopter Serial No: _____
Address: _____ _____ _____	Helicopter Total Time: _____ Date Complete: _____
Phone: _____	Location: _____
E-mail: _____	Serial No. Bolt 1 _____ Bolt 2 _____ Bolt 3 _____ Bolt 4 _____ Bolt 5 _____ Bolt 6 _____

This bulletin is complete: _____
(Signature)

(Print Name)

(Title)

Comments: _____

Bolt 1: _____
Bolt 2: _____
Bolt 3: _____
Bolt 4: _____
Bolt 5: _____
Bolt 6: _____

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