

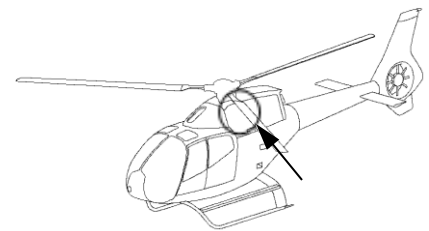
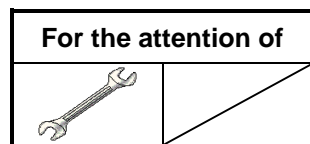
No. EC120-63-023

Civil version(s): B

SERVICE BULLETIN

OBSOLESCENCE MANAGEMENT

MAIN ROTOR DRIVE - Rotor brake Replacement of the rotor brake pads and modification of the guiding of the rotor brake pads



Revision No.	Date of issue
Revision 0	2022-04-26
Revision 1	2024-10-18

Summary:

The brake lining of the rotor brake pads, reference C635A1113101, is made of the material FLERTEX 664. This material will be obsolete. This Service Bulletin changes the rotor brake pads to a new type, reference 439417J, (reference: 7050A3635003) which uses the material FLERTEX 671.

Reason for last Revision:

Revision 1 of this Service Bulletin has the objectives that follow:

- Cancellation of Service Bulletin No. 63-021 and incorporation of its procedure into this Service Bulletin No. 63-023
- Update of the standard sentences.

Compliance:

It is the operator's decision to comply or not to comply with this Service Bulletin.

Export Control:

US Export Control - No US content. This Item does not contain any U.S. origin ITAR or EAR content.

FR Export Control - Not Listed. This Item is not listed against the EC regulations in the EU/FR.

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1. PLANNING INFORMATION



CAUTION

MAKE SURE THAT THE MODIFICATIONS RELATED TO THIS SERVICE BULLETIN AGREE WITH THE HELICOPTER CONFIGURATION AT THIS TIME. IF THE MODIFICATIONS DO NOT AGREE WITH THE HELICOPTER CONFIGURATION:

- PREPARE THE NECESSARY ADAPTATION WORK.
- GET THE APPROVAL BY THE APPLICABLE LOCAL AIR TRANSPORT AUTHORITIES.
- COMPLY WITH THE AIRWORTHINESS REQUIREMENTS.

THIS SERVICE BULLETIN IS WRITTEN FOR THE INITIAL HELICOPTER CONFIGURATION SPECIFIED IN THE INDIVIDUAL INSPECTION LOG BOOK. IT INCLUDES ONLY THE POST-DELIVERY CONFIGURATION CHANGES THAT ARE KNOWN AND APPROVED BY AIRBUS HELICOPTERS.

1.A. EFFECTIVITY

1.A.1. Helicopters/installed equipment or parts

CONF 1

Helicopters installed with the rotor brake assembly reference: C635A1201056 (PRE Service Bulletin 63-021).

CONF 2

Helicopters installed with the rotor brake assembly reference: C635A1201057 (POST Service Bulletin 63-021).

1.A.2. Non-installed equipment or parts

CONF 1

Brake pad assembly reference: C635C1013102 (PRE Service Bulletin 63-021).

Rotor brake assembly reference: C635A1201056 (PRE Service Bulletin 63-021).

CONF 2

Brake pad assembly reference: C635A1113101 (POST Service Bulletin 63-021).

Rotor brake assembly reference: C635A1201057 (POST Service Bulletin 63-021).

1.B. ASSOCIATED REQUIREMENTS

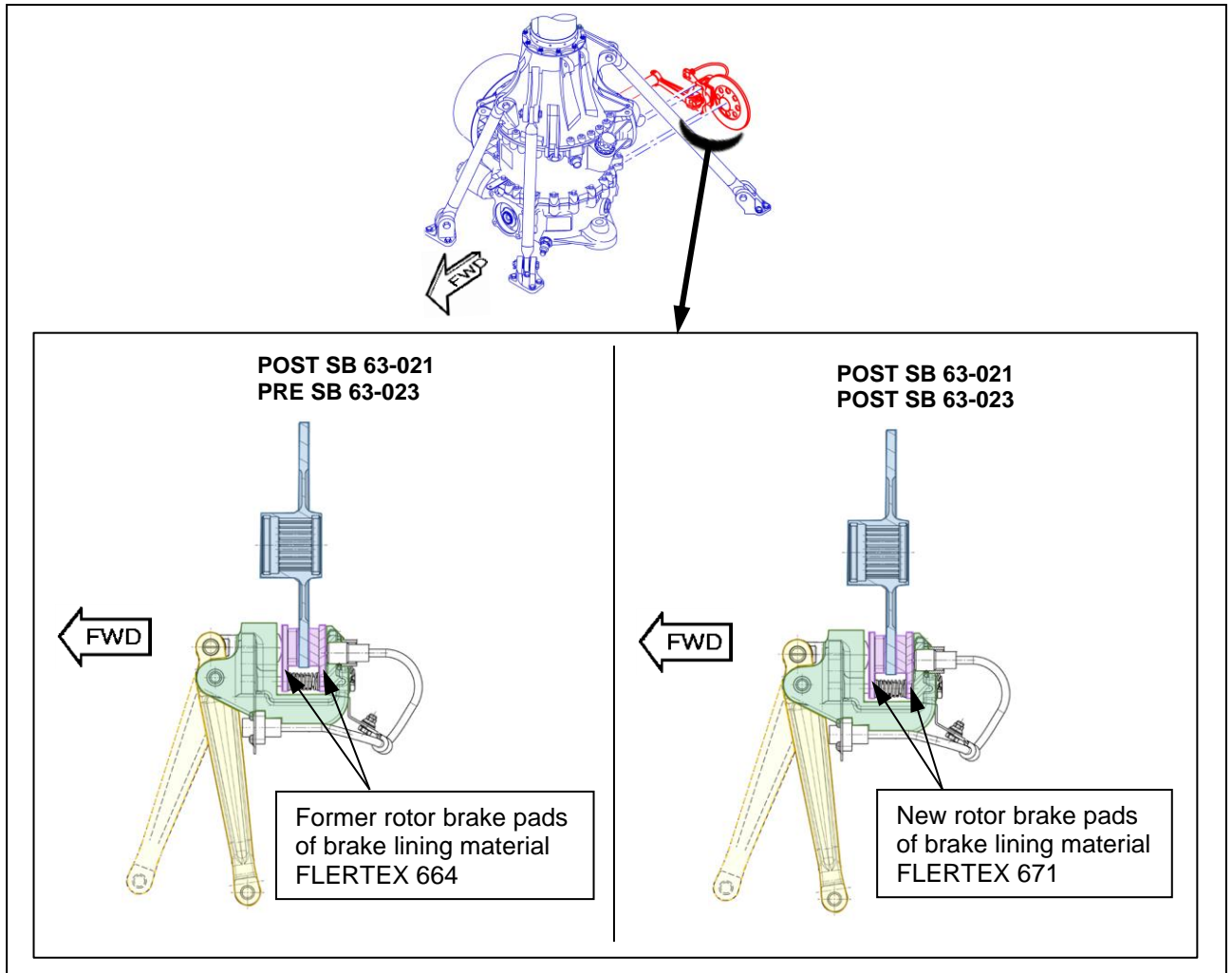
Not applicable.

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1.C. REASON

Revision 0:

The brake lining of the rotor brake pads (reference: C635A1113101) is made of the material FLERTEX 664. This material will be obsolete. This Service Bulletin changes the rotor brake pads to a new type (reference: 439417J (reference: 7050A3635003)) which uses the material FLERTEX 671. When it is necessary to replace the PRE SB rotor brake pads, you can change them into the POST SB rotor brake pads.



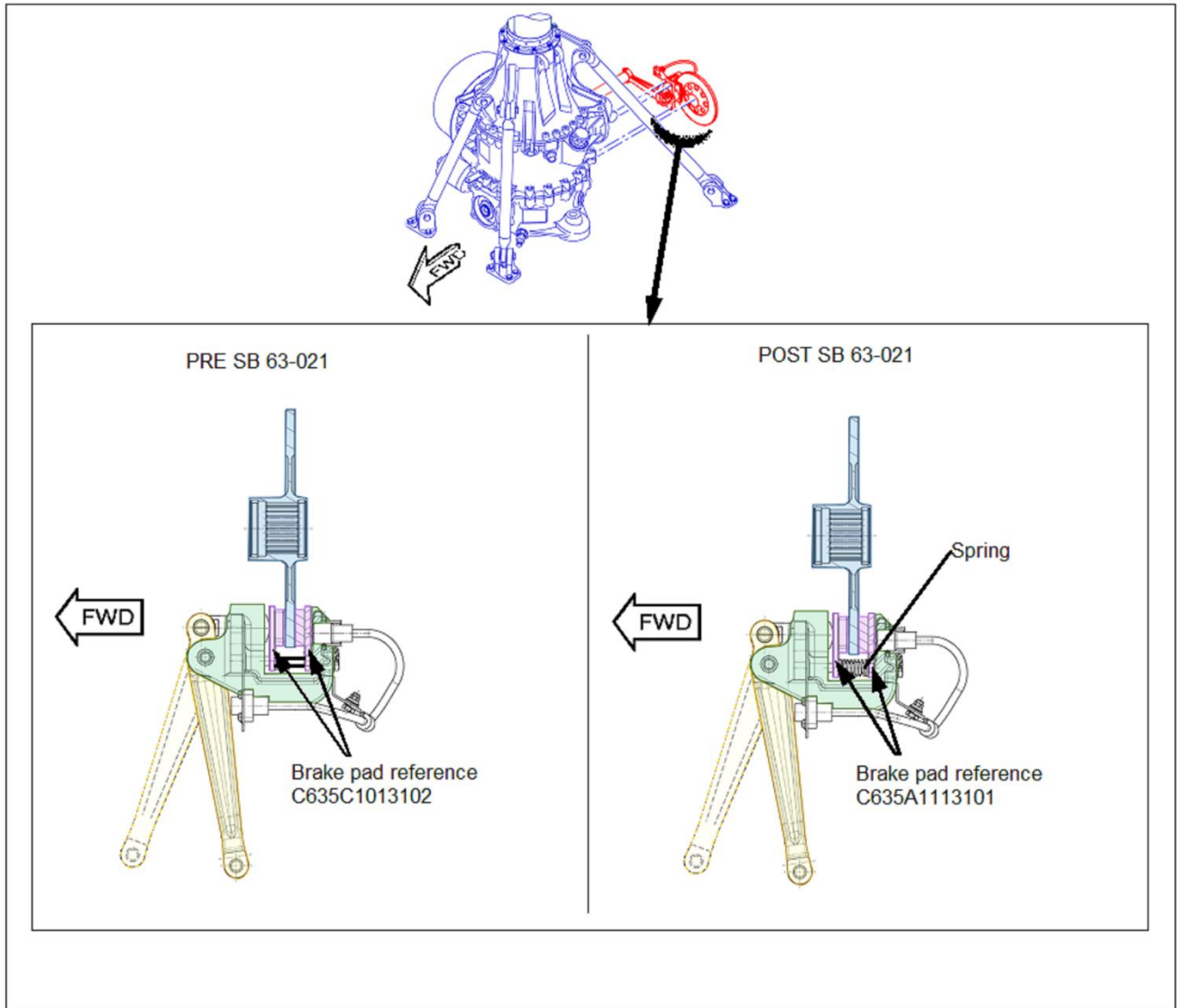
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Revision 1:

Revision 1 of this Service Bulletin has the objectives that follow:

- Cancellation of Service Bulletin No. 63-021 and incorporation of its procedure into this Service Bulletin No. 63-023
- Update of the standard sentences.

Revision 1 of this Service Bulletin has an effect on the compliance with revision 0 of this Service Bulletin because of the integration of the procedure of Service Bulletin 63-021.



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1.D. DESCRIPTION

This Service Bulletin includes the work steps that follow:

- The removal of the rotor brake pads from the rotor brake assembly
- The installation of the new equipped pads and the springs (only CONF 1).
- The installation of the new rotor brake pads on the rotor brake assembly.

1.E. COMPLIANCE

1.E.1. Compliance at H/C manufacturer level

This paragraph is left empty by intention.

1.E.2. Compliance in service

Helicopters/installed equipment or parts:

It is the operator who does the work on the helicopter.

Comply with paragraph 3. (but this is not applicable to paragraph [3.B.5.](#)) of this Service Bulletin when you replace the rotor brake pads.

Non-installed equipment or parts:

It is the operator who does the work on non-installed equipment.

The operator makes the decision to do the modification to stock of the rotor brake assembly identified in paragraph [1.A.2.](#) Refer to paragraph [3.B.5.](#)

It is the operator who makes the decision on the level of stock related to the compliance with this Service Bulletin.

1.F. APPROVAL



The technical content of this document is approved under the authority of the Design Organization Approval ref. EASA. 21J.700.

For helicopters operated outside the terrain regulated by the EASA, the application of this document is subject to validation provided by the responsible aviation authority of the state of registry.

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1.G. MANPOWER



Airbus Helicopters recommends that the personnel who will do this Service Bulletin have this qualification:

Qualification: 1 Mechanical Technician.



The man-hours are an estimate given for information only and for a standard helicopter configuration.

Estimated Man-hours: 4 hours for the Mechanical Technician.



The helicopter downtime is an estimate given for information only and for a standard helicopter configuration.

The estimate of the helicopter downtime is half a day.

1.H. WEIGHT AND BALANCE



There is no change in weight and moment.

1.I. POWER CONSUMPTION

Not changed.

1.J. SOFTWARE UPGRADES/UPDATES

Not applicable.

1.K. REFERENCES

These documents are necessary to comply with this Service Bulletin:

Aircraft Maintenance Manual (AMM):

AMM: 63-51-00, 3-1: Replacement - Rotor brake pads
AMM: 63-51-00, 6-1: Inspection - Rotor brake
AMM: 71-10-00, 4-1: Removal / Installation - Upper Cowlings

Standard Practices Manual (MTC):

MTC: 20-02-05-404: Assembly by screws and nuts - Joining
MTC: 20-02-06-402: Safetying with lockwire - Safetying and locking assemblies
MTC: 20-04-01-102: Use of degreasing products - Cleaning
MTC: 20-07-01-201: Handling of helicopters in a hangar and in a prepared area - Handling
MTC: 20-07-02-201: Helicopter parked in a repair shop - Safety instructions
MTC: 20-07-02-212: Recommendations for working at height – Human Factors Approach – Safety instructions
MTC: 20-07-03-401: Instructions applicable during maintenance operations on mechanical assemblies - Technical instructions

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MTC: 20-07-03-408: Appearance checks on an aircraft after inspection or repair - Technical instructions
MTC: 20-08-05-102: Rules in force applicable for repair and maintenance of aircraft - General rules applicable to aircraft
MTC: 20-08-05-103: Monitoring of parts in operation - marking - service life customization - General rules applicable to aircraft

Information Notice

IN 3481-I-00: The Marketplace: an AirbusWorld eOrdering service
IN 3686-I-00: Publishing of complementary Instructions for Continued Airworthiness through Delivery Notes
IN 3785-I-00: Introduction of the digital Service Bulletin reporting service SB Insight

Safety Promotion Notice (SPN)

SPN: 3703-P-00: Foreign Object Damage prevention

1.L. OTHER AFFECTED PUBLICATIONS



CAUTION

TO COMPLY WITH THIS SERVICE BULLETIN, THE OPERATOR MUST MAKE SURE THAT ALL THE MAINTENANCE DOCUMENTS NECESSARY FOR THE MAINTENANCE OF THIS INSTALLATION ARE AVAILABLE. IF THEY ARE NOT AVAILABLE, THE OPERATOR MUST CONTACT AIRBUS HELICOPTERS TO GET THESE DOCUMENTS.

Publications already updated:

The Aircraft Maintenance Manual (AMM) is updated with the modification.

You will receive the documents to which you subscribe.

Publications to be updated:

The changes to Instructions for Continued Airworthiness (ICA) which are required as a result of this Service Bulletin will be incorporated in the next Normal Revision. Refer to DN.008.0100 until the information is available in the published technical documentation.

Airbus Helicopters will update the Illustrated Parts Catalog when the customer sends an order for it.

NOTE

You can find more information about Delivery Notes in Information Notice IN 3686-1-00.

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1.M. PART INTERCHANGEABILITY OR MIXABILITY

Interchangeability:

PRE SB and POST SB brake pad assemblies are interchangeable.

PRE SB and POST SB rotor brake assemblies are interchangeable.

Mixability:

You must not use PRE SB and POST SB rotor brake pads together. You must change the two rotor brake pads at the same time.

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2. EQUIPMENT OR PARTS INFORMATION

2.A. EQUIPMENT OR PARTS: PRICE - AVAILABILITY - PROCUREMENT

Price

For information about the price of modification kits and/or components, or for aid, contact the Airbus Helicopters Network Sales and Customer Relations Department.

Availability

Contact the Sales and Customer Relations Department to know the delivery lead times.

Procurement

Send an order for the necessary quantities to the Airbus Helicopters Network Sales and Customer Relations Department:

Airbus Helicopters
Etablissement de Marignane
Direction Ventes et Relations Client
13725 MARGNANE CEDEX
FRANCE

In the purchase order, write the information that follows:

- The mode of transport
- The destination
- The serial numbers of the helicopters to change.

2.B. LOGISTIC INFORMATION

Not applicable.

2.C. EQUIPMENT OR PARTS REQUIRED PER HELICOPTER/COMPONENT

Equipment to be ordered for one helicopter or one assembly:

ALL CONF

Key Word	Qty	New reference	Item	Former reference	→	Instruction
H120 Rotor brake pad	2	439417J (7050A3635003)	1	C635A1113101 or C635C1013102		Discard

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Equipment or parts to be ordered separately:

Refer to the Work Cards used in this Service Bulletin, and the list below:

ALL CONF

Key Word	Qty	New reference	Item	Former reference	→	Instruction
Lockwire	1 m	EN3628-0,8	2			

CONF 1

Key Word	Qty	New reference	Item	Former reference	→	Instruction
Spring	2	C635A1114201	3			

Consumables to be ordered separately:

Refer to the Work Cards used in this Service Bulletin.

You can send an order for the consumables from the AirbusWorld Marketplace through e-ordering (IN 3481-I-00). If you cannot get access to e-ordering, please contact your Logistic Focal Point.

Special tools:

Refer to the Work Cards used in this Service Bulletin.

2.D. EQUIPMENT OR PARTS TO BE RETURNED

Not applicable.

3. ACCOMPLISHMENT INSTRUCTIONS

3.A. GENERAL

- Comply with the instructions for assembly by screws and nuts. Refer to Work Card 20-02-05-404 (MTC).
- Comply with the instructions when you use degreasing products. Refer to Work Card 20-04-01-102 (MTC).
- Comply with the instructions to move helicopters in a hangar and in a prepared area. Refer to Work Card 20-07-01-201 (MTC).
- Comply with the safety instructions for helicopters parked in a repair shop. Refer to Work Card 20-07-02-201 (MTC).
- Comply with the instructions applicable during maintenance operations on mechanical assemblies. Refer to Work Card 20-07-03-401 (MTC).
- Comply with the rules in force applicable for repair and maintenance of aircraft. Refer to Work Card 20-08-05-102 (MTC).

3.B. WORK STEPS



MAKE SURE THAT YOU PREVENT ALL POSSIBLE FOREIGN OBJECT DAMAGE (FOD). REFER TO SPN 3703-P-00.

3.B.1. Preliminary steps

- Park the helicopter in a maintenance hangar. Refer to Work Card 20-07-02-201 (MTC).
- Install the applicable access equipment.
- Disconnect all electrical power sources.
- Remove and/or open all applicable cowlings, panels, doors and other items of equipment to get access to the different work areas.
- Put the rotor brake handle in the forward position (brake released).

3.B.2. Procedure

CONF 1 (PRE Service Bulletin 63-021)

3.B.2.a. Removal of the rotor brake pads ([Figure 1](#))

- Refer to the principle of Task 63-51-00,3-1 (AMM) to remove the components that follow from the rotor brake assembly (c) (DETAIL A, PRE SB and DETAIL B):
 - . The bolts (b) (DETAIL A, PRE SB and DETAIL B)
 - . The attachment plate (d) (DETAIL A, PRE SB and DETAIL B)
 - . The washer (e) (DETAIL A, PRE SB and DETAIL B)
 - . The lug (f) (DETAIL A, PRE SB and DETAIL B)
 - . The brake pads (h) (DETAIL A, PRE SB).
- Discard the brake pads (h).
- Keep the components that follow:
 - . The bolts (b) (DETAIL A, PRE SB)
 - . The attachment plate (d) (DETAIL A, PRE SB)
 - . The washer (e) (DETAIL A, PRE SB)
 - . The lug (f) (DETAIL A, PRE SB).

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3.B.2.b. Installation of the rotor brake pads ([Figure 1](#))

- Refer to the principle of Task 63-51-00,3-1 (AMM) to install the components that follow on the rotor brake assembly (c) (DETAIL A, POST SB and DETAIL B):
 - . The brake pads (1) (DETAIL A, POST SB)
 - . The springs (3) (DETAIL A, POST SB)
 - . The lug (f) (DETAIL A, POST SB and DETAIL B)
 - . The washer (e) (DETAIL A, POST SB and DETAIL B)
 - . The attachment plate (d) (DETAIL A, POST SB and DETAIL B)
 - . The bolts (b) (DETAIL A, POST SB and DETAIL B): safety the bolts (b) with the lockwire (2) (DETAIL B).
- Give the new identification to the rotor brake assembly. Refer to paragraph [3.C.](#)

CONF 2 (POST Service Bulletin 63-021)

3.B.2.c. Removal of the rotor brake pads ([Figure 2](#))

- Refer to the principle of Task 63-51-00,3-1 (AMM) to remove the components that follow from the rotor brake assembly (c) (DETAIL A, PRE SB and DETAIL B):
 - . The bolts (b) (DETAIL A, PRE SB and DETAIL B)
 - . The attachment plate (d) (DETAIL A, PRE SB and DETAIL B)
 - . The washer (e) (DETAIL A, PRE SB and DETAIL B)
 - . The lug (f) (DETAIL A, PRE SB and DETAIL B)
 - . The springs (g) (DETAIL A, PRE SB)
 - . The brake pads (h) (DETAIL A, PRE SB).
- Discard the brake pads (h).
- Keep the components that follow:
 - . The bolts (b) (DETAIL A, PRE SB)
 - . The attachment plate (d) (DETAIL A, PRE SB)
 - . The washer (e) (DETAIL A, PRE SB)
 - . The lug (f) (DETAIL A, PRE SB)
 - . The springs (g) (DETAIL A, PRE SB).

3.B.2.d. Installation of the rotor brake pads ([Figure 2](#))

- Refer to the principle of Task 63-51-00, 3-1 (AMM) to install the components that follow on the rotor brake assembly (c) (DETAIL A, POST SB and DETAIL B):
 - . The brake pads (1) (DETAIL A, POST SB)
 - . The springs (g) (DETAIL A, POST SB)
 - . The lug (f) (DETAIL A, POST SB and DETAIL B)
 - . The washer (e) (DETAIL A, POST SB and DETAIL B)
 - . The attachment plate (d) (DETAIL A, POST SB and DETAIL B)
 - . The bolts (b) (DETAIL A, POST SB and DETAIL B): safety the bolts (b) with the lockwire (2) (DETAIL B).
- Give the new identification to the rotor brake assembly. Refer to paragraph [3.C.](#)

3.B.3. Tests

- Set the helicopter to test condition.
- Do the necessary checks. Refer to paragraph G. of Task 63-51-00, 3-1 (AMM).

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3.B.4. Final steps

- Remove all the tools, the materials and the equipment from your work area.
- Install or close all cowlings, panels, doors and items of equipment that you removed and/or opened during the preliminary steps (paragraph 3.B.1. of this Service Bulletin).
- Clean the work area and the helicopter. Refer to Work Card 20-07-03-408 (MTC).
- Connect all electrical power sources.
- Remove the access equipment.

3.B.5. Work steps for non-installed equipment or parts

Stock retrofitting

Do the modification of the rotor brake assembly of reference identified in paragraph [1.A.2.](#) Refer to paragraph [3.B.2.](#)

Replacement, scrapping and building of stocks

It is the operator who makes the decision on the level of stocks for the rotor brake pad reference: 439417J (reference: 7050A3635003).

It is the operator who makes the decision on the modification of stocks of rotor brake assembly reference C635A1201056 or C635A1201057. Refer to paragraph [3.B.2.b.](#) or [3.B.2.d.](#) After modification, identify again. Refer to paragraph [3.C.](#)

3.C. RECORD OF COMPLIANCE

Compliance with this document:

- Record the full compliance with this Service Bulletin, with the revision number, in the helicopter documents.
- Record compliance with this Service Bulletin (see IN 3785-I-00 for instructions):
QR code or hypertext link



[SB EC120 63-023](#)

NOTE

The recording of compliance with Service Bulletins in the SB Insight tool does not replace the recording in the helicopter documents.

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Identification of modifications on equipment or parts:

Refer to Work Card 20-08-05-103 (MTC) and give a new identification to the assembly that follows:

CONF 1 (PRE SB 63-021)

Key Word	Former reference	New reference	Service Bulletin No.	Marking Type
Rotor brake assembly	C635A1201056	C635A1201058	63-023	Indelible ink

CONF 2 (POST SB 63-021)

Key Word	Former reference	New reference	Service Bulletin No.	Marking Type
Rotor brake assembly	C635A1201057	C635A1201058	63-023	Indelible ink

3.D. OPERATING AND MAINTENANCE INSTRUCTIONS

Operating instructions:

Not applicable.

Maintenance instructions:

Not applicable.

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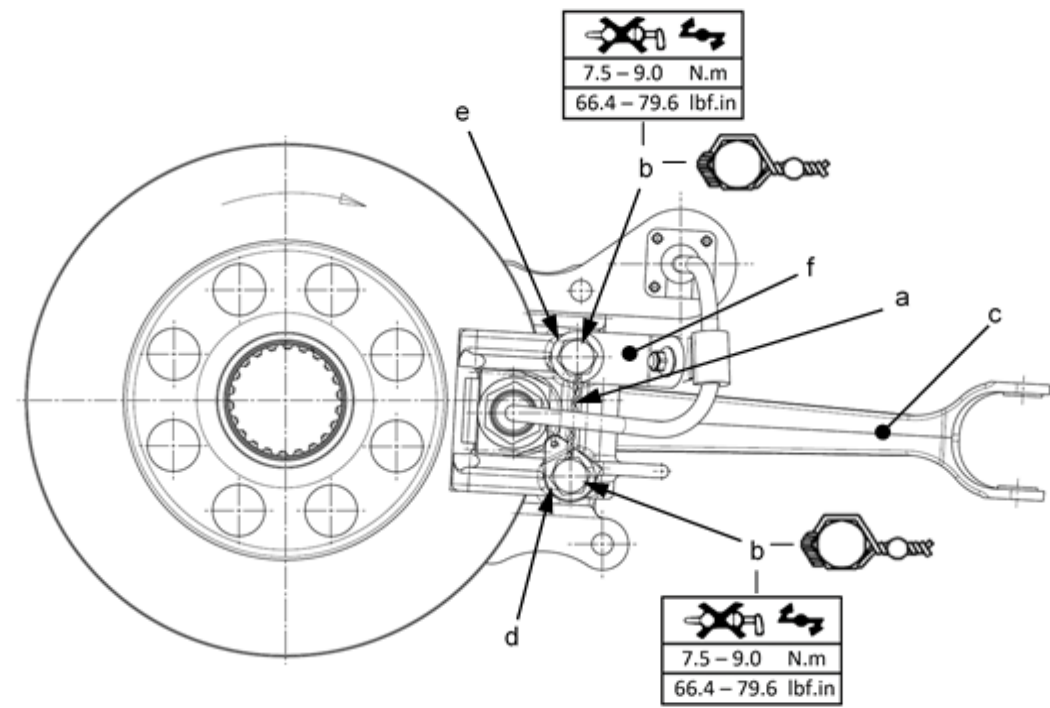
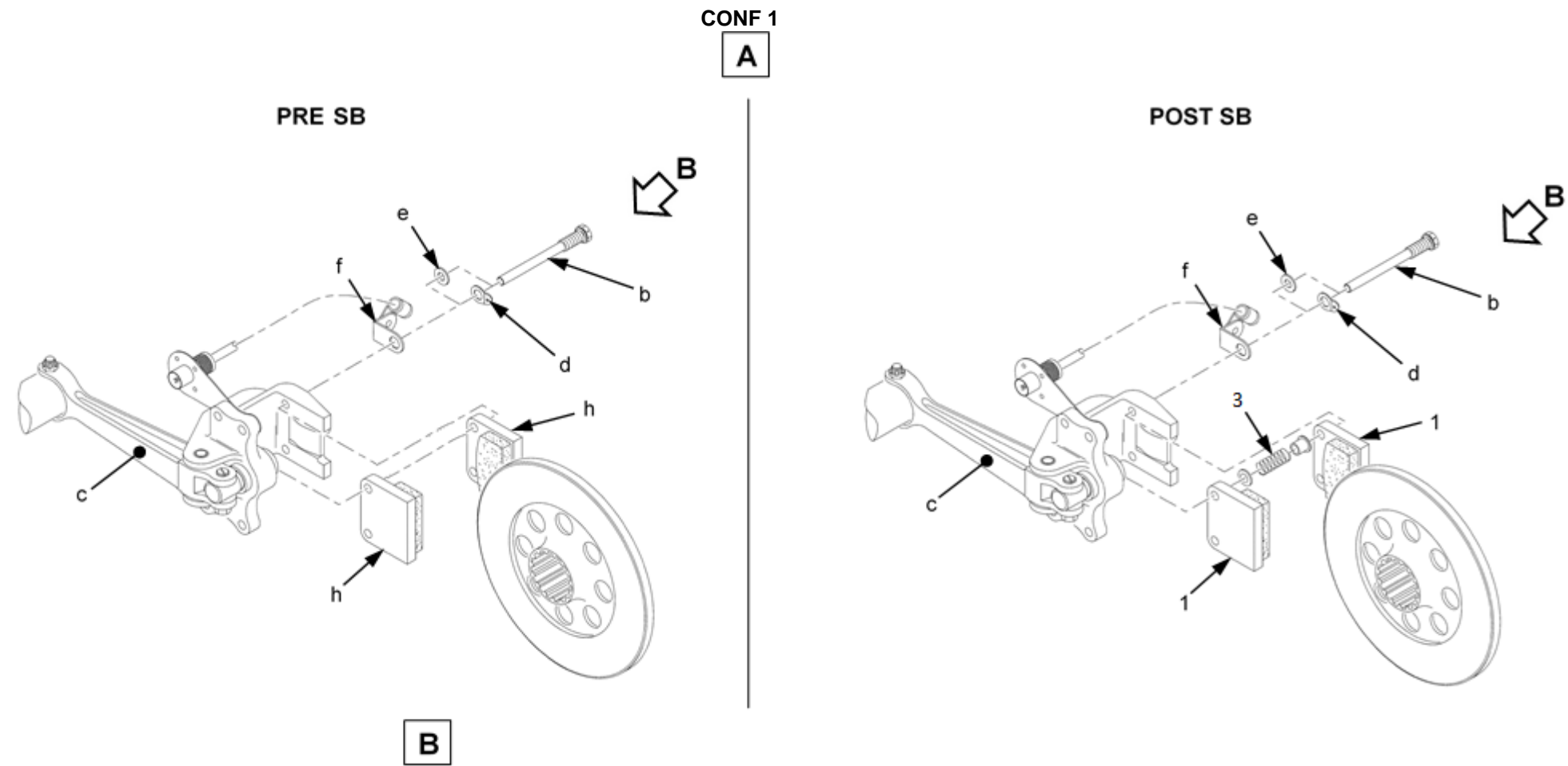
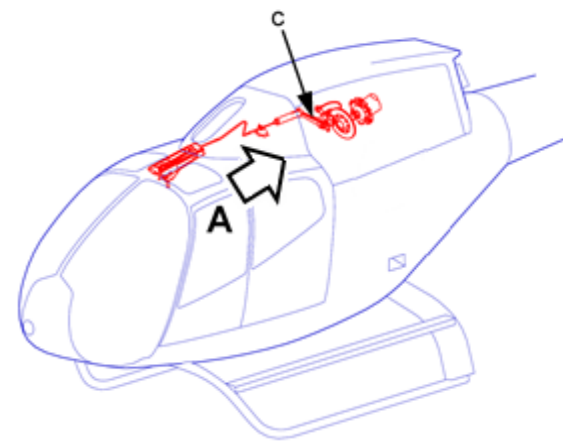


Figure 1

Back to paragraph [3.B.2.a.](#)
 Back to paragraph [3.B.2.b.](#)

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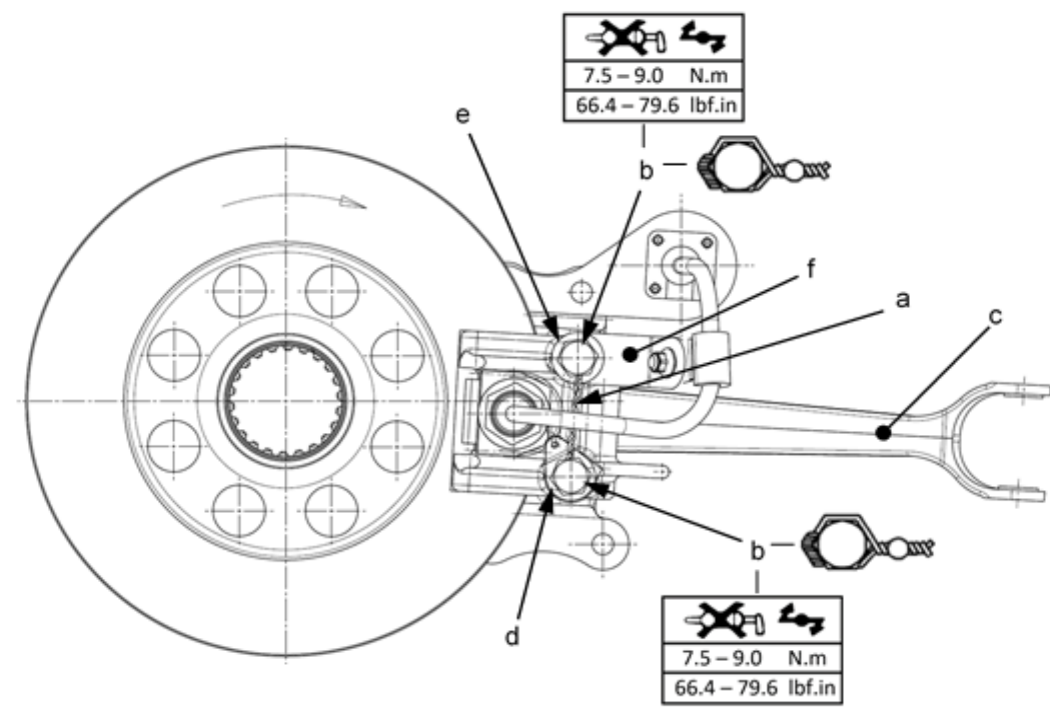
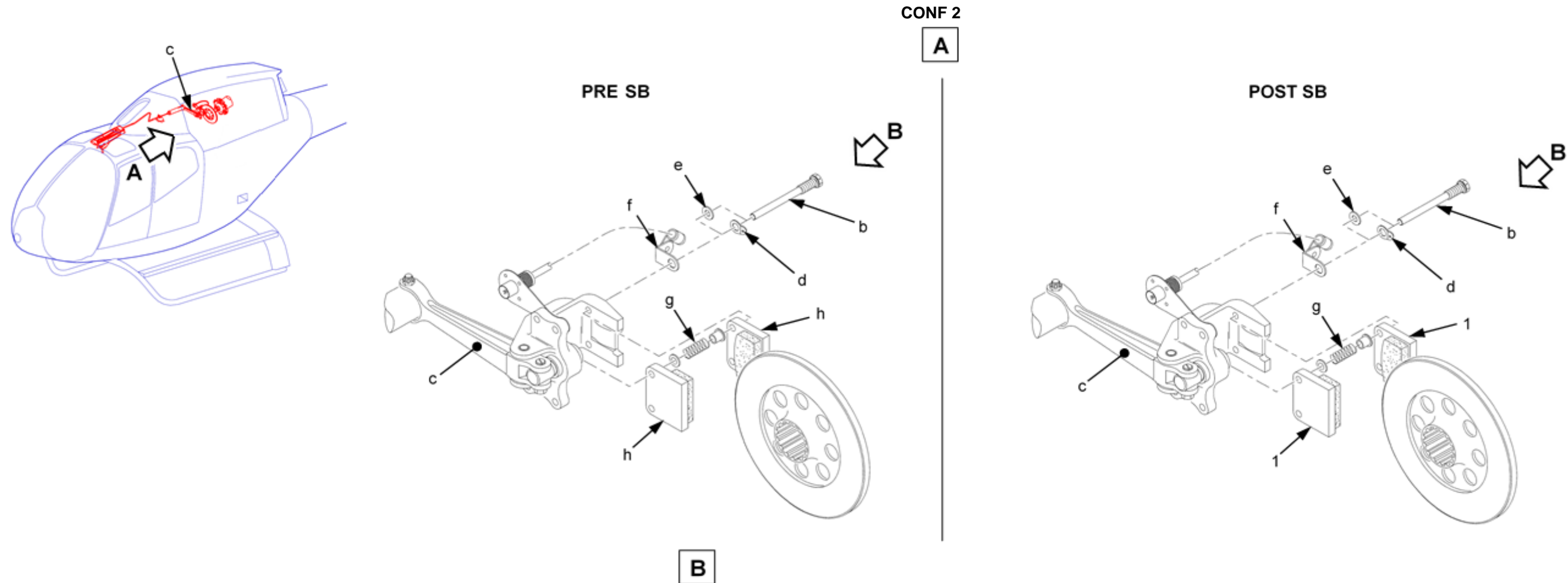


Figure 2

Back to paragraph [3.B.2.c](#)
 Back to paragraph [3.B.2.d](#)