

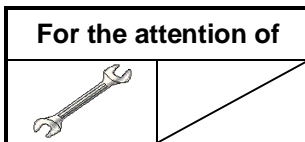
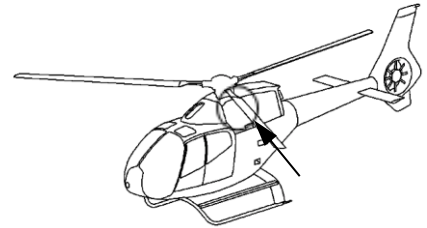
No. EC120-63-023

Civil version(s): B

SERVICE BULLETIN

OBSOLESCENCE MANAGEMENT

MAIN ROTOR DRIVE – Rotor brake Replacement of the rotor brake pads



Revision No.	Date of issue
Revision 0	2022-04-26

Summary:

The brake lining of the rotor brake pads (manufacturer part number (MP/N): 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 (MP/N: 439417J (P/N: 7050A3635003)) which uses the material FLERTEX 671.

Compliance:

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

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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

Helicopters installed with the rotor brake assembly MP/N: C635A1201057.

NOTE 1

The rotor brake assembly MP/N: C635A1201057 is installed on the helicopter through Service Bulletin No. 63-021.

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

- Brake pad assembly MP/N: C635A1113101.
- Rotor brake assembly MP/N: C635A1201057.

NOTE 2

The brake pad assembly MP/N: C635A1113101 and rotor brake assembly MP/N C635A1201057 are installed on the helicopter through Service Bulletin No. 63-021.

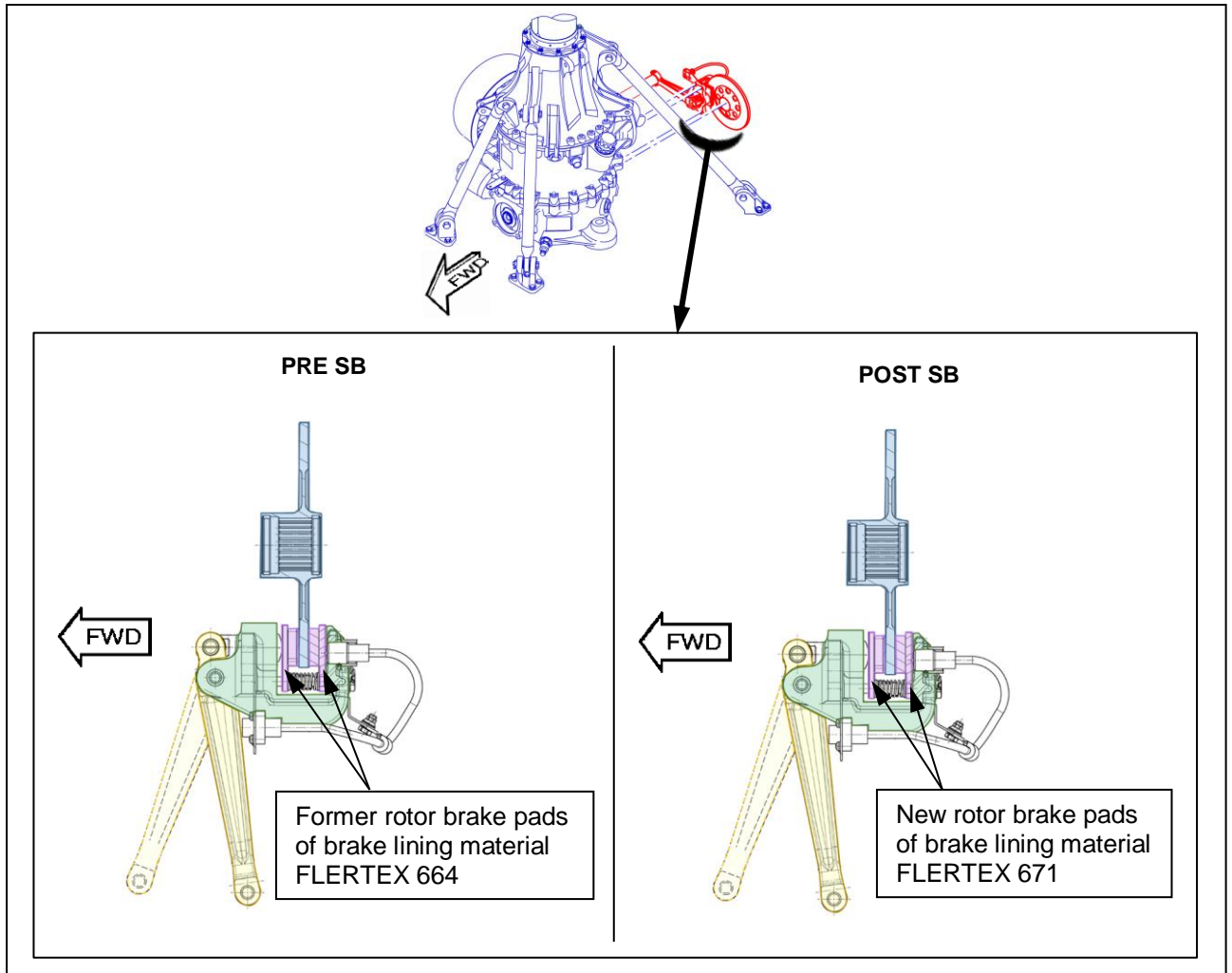
1.B. ASSOCIATED REQUIREMENTS

Not applicable.

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1.C. REASON

The brake lining of the rotor brake pads (MP/N: 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 (MP/N: 439417J (P/N: 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.



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 rotor brake pads on the rotor brake assembly.

1.E. COMPLIANCE

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

Not applicable.

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

Approval of modifications:

The information or instructions relate to modification COA08019C revision 2, which was approved on March 11, 2022 under the authority of EASA Design Organization Approval No. 21J.700 for civil version helicopters subject to an Airworthiness Certificate.



Approval of this document:

The technical information contained in this Service Bulletin Revision 0 was approved on April 13, 2022 under the authority of EASA Design Organization Approval No. 21J.700 for civil version helicopters subject to an Airworthiness Certificate.

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 almost no change in weight and moment.

1.I. POWER CONSUMPTION

This Service Bulletin has no effect on the electrical load analysis.

1.J. SOFTWARE UPGRADES/UPDATES

Not applicable.

1.K. REFERENCES

These documents are necessary to comply with this Service Bulletin:

Aircraft Maintenance Manual

AMM: 63-51-00, 3-1: Replacement - Rotor brake pads
AMM: 63-51-00, 6-1: Inspection - Rotor brake

Information Notice

IN: 3481-I-00: The Marketplace: an AirbusWorld eOrdering service
IN: 3643-I-00: Introduction of the digital Service Bulletin reporting service R-TEX

Standard Practices Manual

MTC: 20-02-05-404: Assembly by screws and nuts - Joining
MTC: 20-02-06-402: Safetying with lockwire - Safetying and locking assemblies
MTC: 20-07-01-201: 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: 20-07-03-401: Instructions applicable during maintenance operations on mechanical assemblies - Technical instructions
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

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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 to be updated:

Airbus Helicopters will update the Aircraft Maintenance Manual (AMM) in relation to the modification.

You will receive the document to which you subscribe.

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

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.

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 MARIIGNANE 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

Kits to be ordered for one helicopter or one assembly:

Key Word	Qty	New P/N	Item	Former P/N	→	Instruction
H120 Rotor brake pad	2	439417J (7050A3635003)	1	C635A1113101		<i>Discard</i>

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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:

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

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 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 FOD.

3.B.1. Preliminary steps

- Park the helicopter in a maintenance hangar.
- Disconnect all electrical power sources.
- Install the applicable access means.
- 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

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

- Remove the lockwire (a) from the bolts (b) (DETAIL B).
- 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).

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

- Do a check of the condition of the bolts (b) (DETAIL A, POST SB). Refer to the principle of Task 63-51-00, 6-1 (AMM).
- 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).
- Torque the bolts (b) to the values given (DETAIL B).
- Safety the bolts (b) with the lockwire (2) (DETAIL B). Refer to Work Card 20-02-06-402 (MTC).
- 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).

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).
- Remove the access means.
- Connect all electrical power sources.
- Set the helicopter to flight condition.

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

Stock retrofitting

Do the modification of the rotor brake assembly of MP/N identified in paragraph 1.A.2. Refer to paragraph 3.B.2.

Replacement, discarding, and provision of stock

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

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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 the full compliance with this Service Bulletin (see IN 3643-I-00 for instructions):
QR code or hypertext link

NOTE



The recording of compliance with Service Bulletins in the R-TEX tool does not replace the recording in the helicopter documents.

[SB EC120 63-023](#)

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:

Key Word	Former P/N	New P/N	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:

Unscheduled

Airbus Helicopters will add instructions to the Aircraft Maintenance Manual (AMM) during one of the next revisions. After the addition of these instructions to the Aircraft Maintenance Manual (AMM), refer to this manual. For the maintenance tasks, contact your usual Airbus Helicopters contact person.

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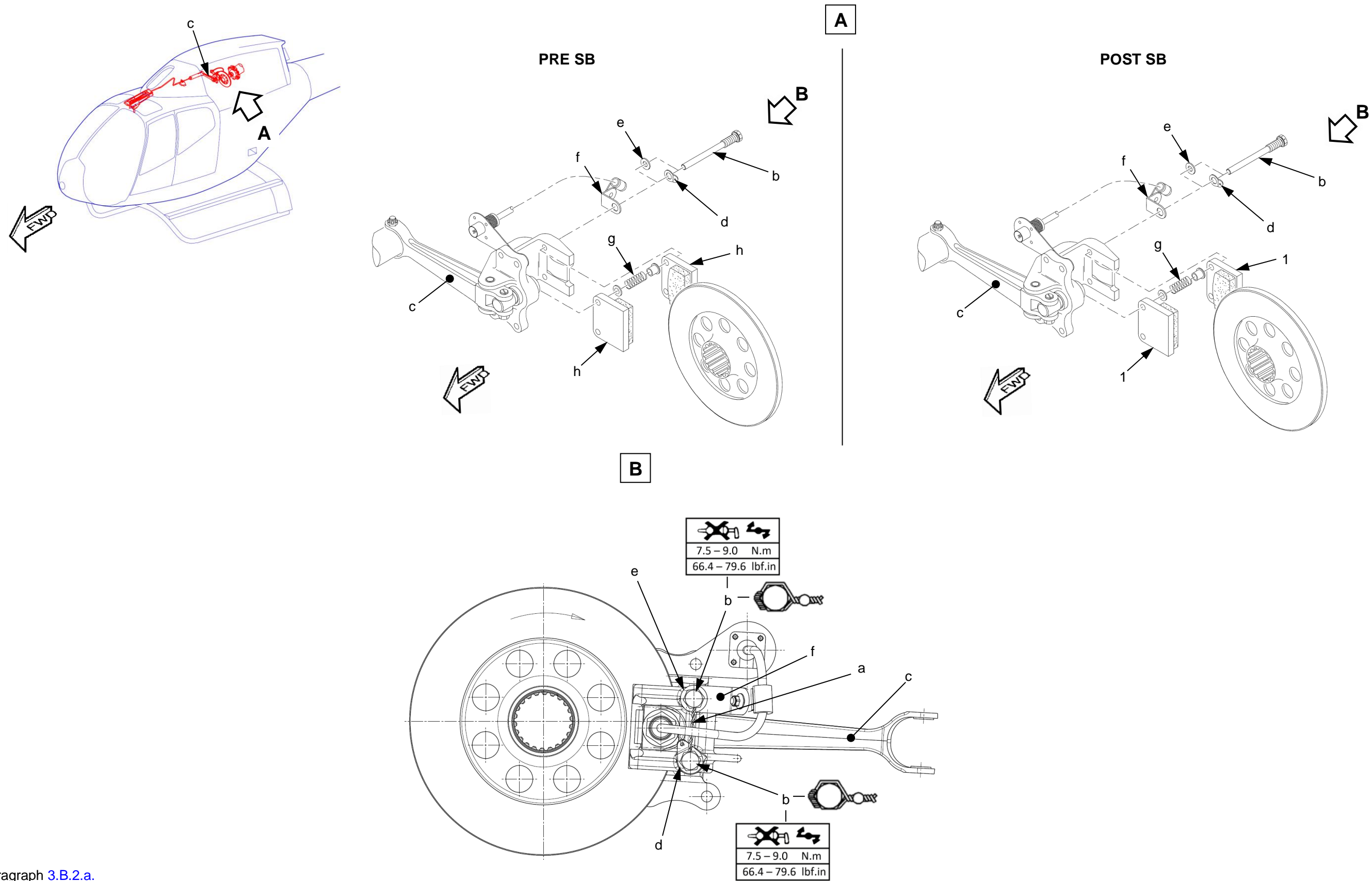


Figure 1

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