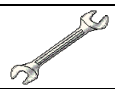


Civil version(s): C1, C2, C3

ALERT SERVICE BULLETIN

PROTECTIVE MEASURE

TAIL ROTOR DRIVE - Main gear box
Upgrade of non-electrical magnetic plug at pump intake of the MGB
Corresponds to modification 0763B19

For the attention of


Revision No.	Date of issue
Revision 0	2020-05-28

Summary:

As a precautionary measure and an enhancement to safety, Airbus Helicopters makes modification 0763B19 mandatory through this ALERT SERVICE BULLETIN to improve the performance in collecting metal particles in the main gear box (MGB). This modification replaces the non-electrical magnetic plug at the pump intake of the MGB with a new non-electrical magnetic plug. The new non-electrical magnetic plug has a higher performance, due to a longer magnetic part and a higher capacity to capture metal particles.

Compliance:

Compliance with this ALERT SERVICE BULLETIN is mandatory.

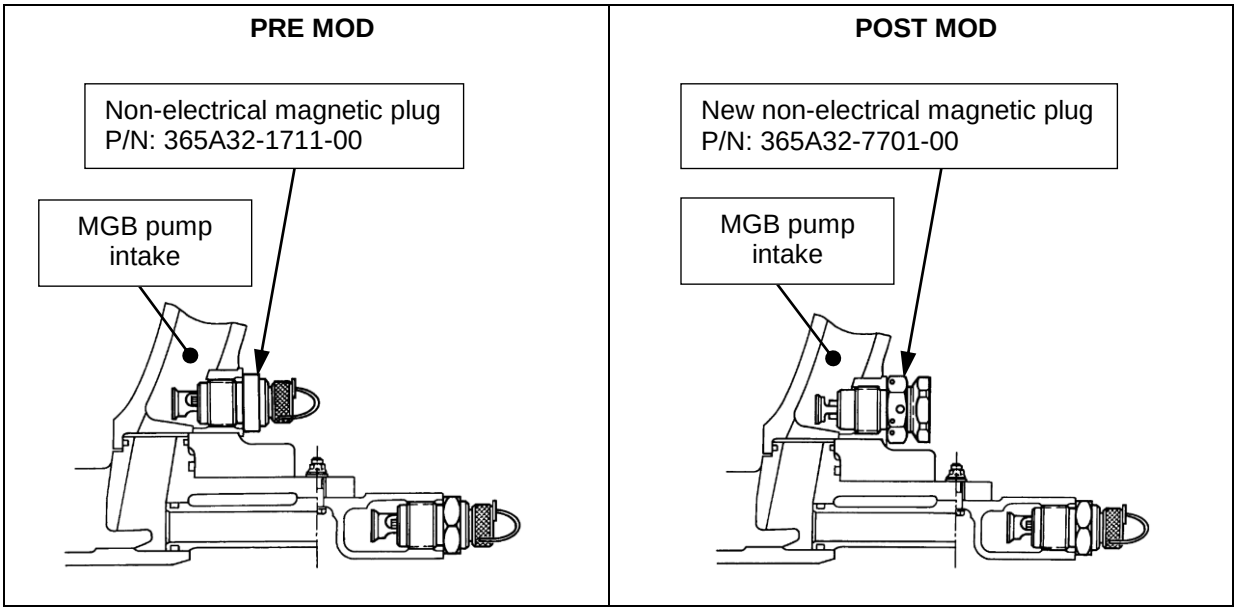
ASB SA365 65.53

1. PLANNING INFORMATION

1.A. EFFECTIVITY

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

MGB of all part numbers (P/N) which satisfy any of the following conditions:
- equipped with non-electrical magnetic plug P/N: 365A32-1711-00 at the MGB pump intake,
- have not embodied modification 0763B19.



NOTE 1

Refer to the Log Card (FM) to identify the current modification status of the equipment.

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

- MGB as listed in paragraph 1.A.1.,
- Non-electrical magnetic plug P/N: 365A32-1711-00.

1.B. ASSOCIATED REQUIREMENTS

Not applicable.

1.C. REASON

Airbus Helicopters is proactively reassessing its policy with regard to particle detection in the MGB for its entire product range. A series of analysis was conducted on the MGB of the Dauphin family.

As a precautionary measure and an enhancement to safety, Airbus Helicopters makes modification 0763B19 mandatory through this ALERT SERVICE BULLETIN to improve the performance in collecting metal particles in the MGB. This modification replaces the non-electrical magnetic plug at the pump intake of the MGB with a new non-electrical magnetic plug. The new non-electrical magnetic plug has a higher performance, due to a longer magnetic part and a higher capacity to capture metal particles.

PRE MOD	**POST MOD**
	
Non-electrical magnetic plug P/N: 365A32-1711-00	New non-electrical magnetic plug P/N: 365A32-7701-00

Airbus Helicopters makes compliance with Revision 0 of this ALERT SERVICE BULLETIN mandatory.

1.D. DESCRIPTION

This ALERT SERVICE BULLETIN replaces the non-electrical magnetic plug at the pump intake of the MGB with a new non-electrical magnetic plug.

NOTE 2

To replace the non-electrical magnetic plug, the MGB must first be drained. After the modification is completed, the MGB is filled again. A ground run-up is required to complete the filling task.

1.E. COMPLIANCE

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

Helicopters/installed equipment or parts:

Not applicable.

Non-installed equipment or parts:

Airbus Helicopters makes it mandatory to comply with the instructions of paragraph 3.B.5. of this ALERT SERVICE BULLETIN before the delivery of the MGB.

1.E.2. Compliance in service

Helicopters/installed equipment or parts:

The work must be performed on the helicopter by the operator.

Comply with paragraph 3. except paragraphs 3.B.5. and 3.D. of this ALERT SERVICE BULLETIN within 110 flight hours (FH) or at the latest within 3 months from receipt of this ALERT SERVICE BULLETIN issued on the date indicated in the page footer.

Non-installed equipment or parts:

The work must be performed on the MGB by the operator.

Before installation on helicopter, modify stocks of the MGB as per paragraph 3.B.5. of this ALERT SERVICE BULLETIN without exceeding August 28, 2020.

The build-up of stocks of non-electrical magnetic plug P/N: 365A32-7701-00 for compliance with this ALERT SERVICE BULLETIN is left to the operator's initiative.

1.F. APPROVAL

Approval of modifications:

The information or instructions relate to modification 0763B19, which was approved on June 14, 1991 by Bureau Veritas for civil version helicopters subject to an Airworthiness Certificate.



Approval of this document:

The technical information contained in this ALERT SERVICE BULLETIN Revision 0 was approved on May 28, 2020 under the authority of EASA Design Organization Approval No. 21J.700 for civil version helicopters subject to an Airworthiness Certificate.

1.G. MANPOWER



For compliance with this ALERT SERVICE BULLETIN, Airbus Helicopters recommends the following staff qualifications:

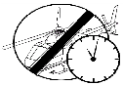
Qualification: 1 Mechanical Technician.

Specialist: 1 Pilot.



The Estimated Man-hours are indicated for reference purposes only and based on a standard helicopter configuration.

Estimated Man-hours: - 5 hours for the Mechanical Technician,
- 0.5 hour for the Pilot.



Estimated helicopter downtime is indicated for reference purposes only, based on a standard helicopter configuration.

Helicopter downtime is estimated at 1 day.

1.H. WEIGHT AND BALANCE



There is no change in weight and moment.

1.I. POWER CONSUMPTION

Not applicable.

1.J. SOFTWARE UPGRADES/UPDATES

Not applicable.

1.K. REFERENCES

The following documents are required for compliance with this ALERT SERVICE BULLETIN.

Maintenance Manual (MET):

MET: 12.00.601:	Check of a magnetic component - Standard maintenance
MET: 24.00.300:	Instructions - Electrical power generating system
MET: 65.00.300:	General mechanical instructions - Rotor assemblies
MET: 65.32.301:	Routine Maintenance: Oil change: Draining and filling the M.G.B. - Engine - Main gearbox coupling (main drive shaft) assembly

Standard Practices Manual (MTC):

MTC: 20-02-06-402:	Safetying with lockwire - Safetying and locking assemblies
MTC: 20-02-08-410:	Installation of seals on mechanical or hydraulic assemblies - Replacement of components on structure and mechanical assemblies
MTC: 20-05-01-222:	Application of PR 1771 B2 sealant - General sealing procedures
MTC: 20-05-01-227:	Application of jointing compound CA 1010 - General sealing procedures
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 an inspection or repair - Technical instructions
MTC: 20-08-05-101:	Drafting and updating the log card (FM) - General rules applicable to aircraft
MTC: 20-08-05-102:	Rules in force applicable for repair and maintenance of aircraft - General rules applicable to aircraft
MTC: 20-09-02-901:	Preservation and packing methods of airborne equipment - Preservation

Safety Information Notice (SIN):

SIN: 3069-S-63:	Checking procedure for magnetic plug installation and locking - Main Rotor Drive

1.L. OTHER AFFECTED PUBLICATIONS

CAUTION

TO COMPLY WITH THIS ALERT SERVICE BULLETIN, THE OPERATOR MUST MAKE SURE THAT ALL THE MAINTENANCE DOCUMENTS REQUIRED FOR THE MAINTENANCE OF THIS INSTALLATION ARE AVAILABLE. IF NOT, IT IS THE OPERATOR'S RESPONSIBILITY TO OBTAIN THE DOCUMENTS FROM THE USUAL AIRBUS HELICOPTERS CONTACT.

Publications already updated:

This modification was integrated into the Maintenance Manual (MET).

This document is distributed as per subscription.

Publications to be updated:

Revision of the Illustrated Parts Catalog (IPC) will be updated on the customer's order.

1.M. PART INTERCHANGEABILITY OR MIXABILITY

Interchangeability:

This ALERT SERVICE BULLETIN prohibits the installation of PRE MOD non-electrical magnetic plugs at the pump intake of POST MOD MGBs.

Mixability:

Not applicable.

2. EQUIPMENT OR PARTS INFORMATION

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

Price

The magnetic plug is free of charge.

For any information on the price of other components or for assistance, contact the Airbus Helicopters Network Sales and Customer Relations Department.

Availability

Delivery lead times will be indicated by the Sales and Customer Relations Department on the operator's request.

Procurement

The components will be delivered with special pricing conditions until May 28, 2021.

Order the required quantity from the Airbus Helicopters Network Sales and Customer Relations Department:

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

NOTE 1

On the purchase order, please specify the mode of transport, the destination and the serial numbers of the helicopter to modify.

NOTE 2

For ALERT SERVICE BULLETINS, order by:
Telex: HELICOP 410 969F
Fax: +33 (0)4.42.85.99.96

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	Old P/N →	Instruction
Magnetic plug	1	365A32-7701-00	1	365A32-1711-00	**Store**
Magnetic plug mobile part	*ref*	*for reference only*	1a		*For ref only*
Magnetic plug receptacle	*ref*	*for reference only*	1b		*For ref only*
O-ring	1	PS701-6006-126	2		

Equipment or parts to be ordered separately:

Key Word	Qty	New P/N	Item	Old P/N →	Instruction
Lockwire	0.5 m	EN3628-0,8	3		

Consumables to be ordered separately:

As per Work Cards mentioned in this ALERT SERVICE BULLETIN and the list below:

Key Word	Qty	P/N	CM	Item
G-361 grease	0.1 L	DCSEA361	CM 149	5
Sealant	1 piece	ECS2339-60	CM 6068	6
Interposition sealant	1 tube	ECS7009	CM 518	7

The consumables can be ordered separately from the following companies:

Aviatec global aviation

Website: www.aviatec.net
Telephone: +33 1.34.46.45.24 or +49 4193.8803.630
Fax: +33 1.34.46.45.26 or +49 4193.8803.699
AOG: +49 4193.8803.660
AOG email: aog@aviatec.aero

Gaches chimie

Website: www.gaches.com
Telephone: +33 5.61.31.64.45
Fax: +33 5.61.40.98.63
AOG email: marketplace@gaches.com

BDSI

Website: https://www.boeingdistribution.com
Telephone: +1.305.925.2600
Fax: +1.305.507.7191
AOG: +1.305.471.8888
AOG email: AOGdesk@Boeingdistribution.com

NOTE 3

The equivalent part numbers of the consumables can vary between the companies listed above.

Special tools:

As per Work Cards mentioned in this ALERT SERVICE BULLETIN.

2.D. EQUIPMENT OR PARTS TO BE RETURNED

Not applicable.

3. ACCOMPLISHMENT INSTRUCTIONS

3.A. GENERAL

- As per Work Card 24.00.300 (MET), read and comply with general safety instructions on electrical power.
- As per Work Card 65.00.300 (MET), read and comply with general mechanical instructions on rotor assemblies.
- As per Work Card 20-07-01-201 (MTC), read and comply with instructions on handling of helicopters in a hangar and in a prepared area.
- As per Work Card 20-07-02-201 (MTC), read and comply with instructions on helicopters parked in a repair shop.
- As per Work Card 20-07-03-401 (MTC), read and comply with instructions applicable during maintenance operations on mechanical assemblies.
- As per Work Card 20-08-05-102 (MTC), read and comply with rules in force applicable for repair and maintenance of aircraft.

3.B. WORK STEPS

3.B.1. Preliminary steps

- Park the helicopter in a maintenance hangar.

CAUTION

BEFORE WORKING ON ELECTRICAL CIRCUITS, READ WORK CARD 24.00.300 (MET).

CAUTION

BEFORE WORKING ON MECHANICAL SYSTEM, READ WORK CARD 65.00.300 (MET).

CAUTION

WHEN WORKING ON MGB, BE CAREFUL NOT TO SCRATCH OR DAMAGE THE MGB, OR DAMAGE ANY SYSTEMS ADJACENT TO THE MGB.

- Disconnect all electrical power sources.
- Install the appropriate access means.
- Remove and/or open all cowlings, panels and all equipment items to enable adequate access to the various work areas.
- Check the magnetic plug mobile part (a) for metal particles as per Work Card 12.00.601 (MET) (Figure 1, DETAIL A, PRE MOD).
- Drain the MGB (b) as per Work Card 65.32.301 (MET) (Figure 1).

3.B.2. Procedure

3.B.2.a. Removal of non-electrical magnetic plug (Figure 1)

- Push and turn by a quarter turn to remove the magnetic plug mobile part (a) from the magnetic plug receptacle (c) (DETAIL A, PRE MOD and DETAIL B).
- Cut and remove the lockwire (d) from the magnetic plug receptacle (c) (DETAIL B).
- Loosen and remove the magnetic plug receptacle (c) (DETAIL A, PRE MOD).
- Remove and discard the o-ring (e) from the magnetic plug receptacle (c) (DETAIL A, PRE MOD).
- Store the magnetic plug mobile part (a) and magnetic plug receptacle (c) as per Work Card 20-09-02-901 (MTC).
- Clean the area.

3.B.2.b. Installation of new non-electrical magnetic plug (Figure 1)

- Remove the magnetic plug mobile part (1a) from the magnetic plug receptacle (1b) of the magnetic plug (1) (DETAIL A, POST MOD).
- Install the o-ring (2) on the magnetic plug receptacle (1b) as per Work Card 20-02-08-410 (MTC).
- Lubricate the screw thread of the magnetic plug receptacle (1b) with grease (5).
- Apply a layer of interposition sealant (7) on the flat mating surface between the MGB (b) and the magnetic plug receptacle (1b) as per Work Card 20-05-01-227 (MTC) (DETAIL A, POST MOD).
- Install and tighten the magnetic plug receptacle (1b) on the MGB (b).
- Clean the area.
- Safety the magnetic plug receptacle (1b) on the MGB (b) with lockwire (3) as per Work Card 20-02-06-402 (MTC) (DETAIL C).
- Apply a bead of sealant (6) along the mating surfaces between the magnetic plug receptacle (1b) and the MGB (b) as per Work Card 20-05-01-222 (MTC) (DETAIL A, POST MOD).

CAUTION

MAKE SURE THAT MAGNETIC PLUG MOBILE PART (1a) IS CORRECTLY LOCKED AS PER SAFETY INFORMATION NOTICE NO. 3069-S-63 (SIN).

- Install the magnetic plug mobile part (1a) on the magnetic plug receptacle (1b) (DETAIL A, POST MOD and DETAIL C).

3.B.3. Final steps

- Fill the MGB (b) as per Work Card 65.32.301 (MET) (Figure 1).
- Clean and restore the work zones and helicopter as per Work Card 20-07-03-408 (MTC).
- Install again or close all cowlings, panels and equipment removed and/or opened during preliminary steps (paragraph 3.B.1. of this ALERT SERVICE BULLETIN).
- Remove the access means.
- Connect all electrical power sources.
- Set the helicopter to flight condition.

3.B.4. Ground run-up / flight test

Perform a ground run-up after filling of the MGB as required in the Work Card 65.32.301 (MET) used in this ALERT SERVICE BULLETIN.

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

Stock retrofitting

Replace the non-electrical magnetic plug on the MGB listed in paragraph 1.A.2., as per paragraph 3.B.2. of this ALERT SERVICE BULLETIN.

Stock replacement, stock discard, and stock build-up

The build-up of stocks of non-electrical magnetic plug P/N: 365A32-7701-00 is incumbent on the Operator.

3.C. COMPLIANCE CONFIRMATION

Compliance with this document:

- Record full compliance with this ALERT SERVICE BULLETIN, with the revision number, in the Log Card (FM) as per Work Card 20-08-05-101 (MTC).

- Please confirm compliance with this ALERT SERVICE BULLETIN:
  QR-Code or hypertext link

NOTE

The recording of compliance with this ALERT SERVICE BULLETIN in the R-Tex tool does not replace the recording in the helicopter documents.

ASB SA365 65.53

Tracking of modifications in the documentation:

Record modification 0763B19 and the ALERT SERVICE BULLETIN number on the Log Card (FM) of the MGB as per Work Card 20-08-05-101 (MTC).

3.D. OPERATING AND MAINTENANCE INSTRUCTIONS

Operating instructions:

Not applicable.

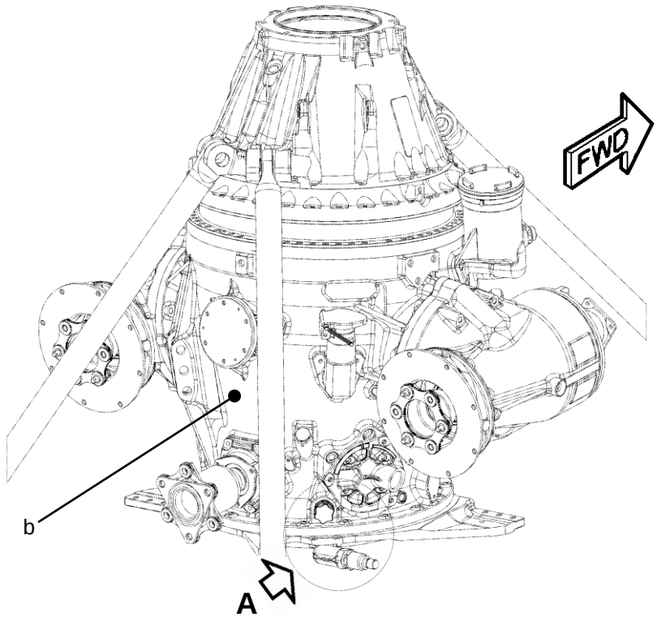
Maintenance instructions:

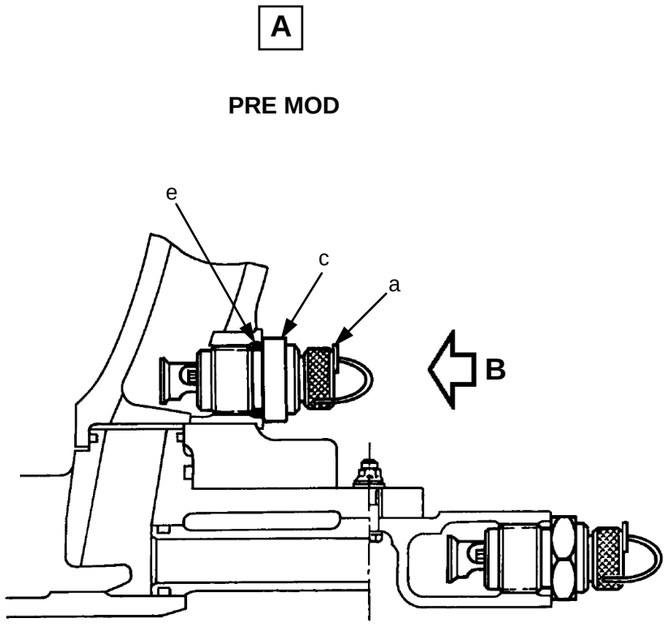
Scheduled

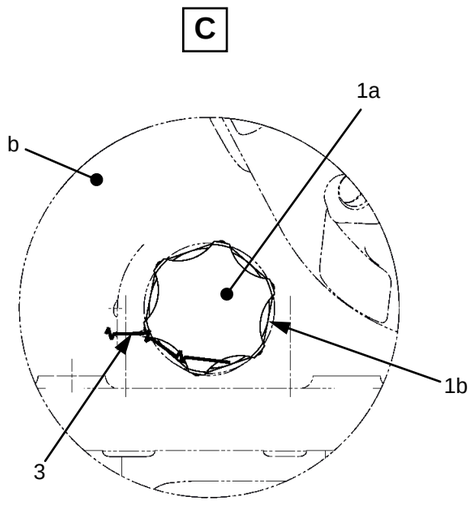
Refer to Maintenance Program (PRE) and Airworthiness Limitations (5.99), in effect.

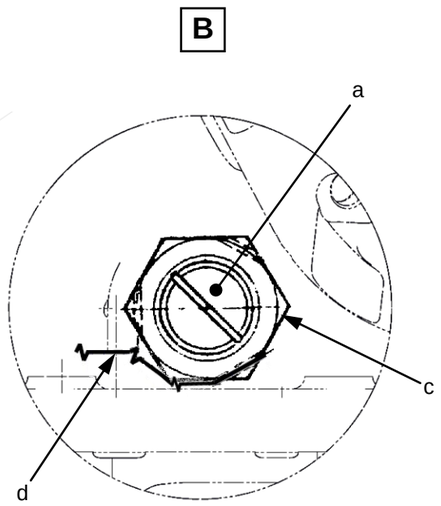
Unscheduled

Refer to the Maintenance Manual (MET) revision 40 of date code 07-19, or newer revision.









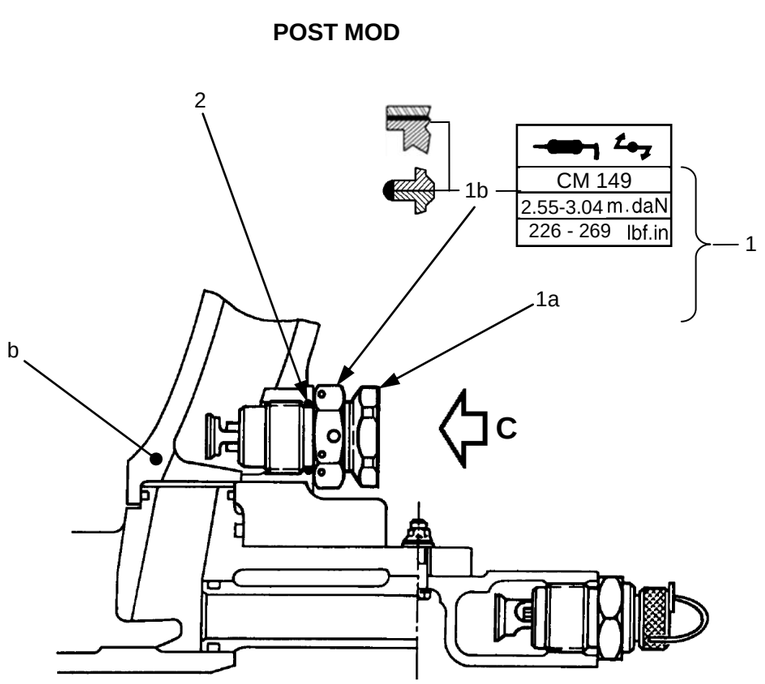


Figure 1

Return to paragraph 3.B.1.
Return to paragraph 3.B.2.a.
Return to paragraph 3.B.2.b.
Return to paragraph 3.B.3.