

No. EC120-31-011

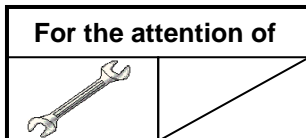
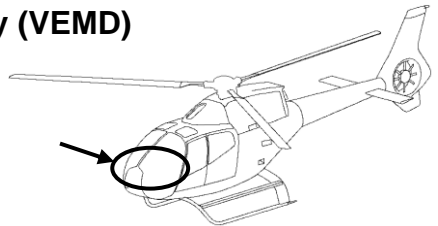
Civil version(s): B

SERVICE BULLETIN

OBSOLESCENCE MANAGEMENT

INDICATING AND RECORDING SYSTEMS

Interchangeability of the Vehicle Engine Management Display (VEMD)



Revision No.	Date of issue
Revision 0	2024-02-20

Summary:

Following the obsolescence of the non-NVG (Night Vision Goggles) VEMD and the NVG VEMD OG (Old Generation), the objective of this Service Bulletin is to allow the interchangeability between the NVG VEMD OG or the non-NVG VEMD with the NVG VEMD NG (New Generation).

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

Non-NVG Helicopters with:

- A non-NVG VEMD OG:
 - . Reference B19030FB05 (7050A4316028)
- Or
- . Reference B19030FC05 (7050A4316027)
- Or
- A NVG VEMD OG reference B19030WB05 (7050A4316029).

NOTE 1

The NVG VEMD OG reference B19030WB05 (7050A4316029) is installed through Service Bulletin No. 31-010.

NVG Helicopters with a NVG VEMD OG reference B19030WB05 (050A4316029).

NOTE 2

You can identify the modification status of the helicopter in the Section of modifications embodied in the helicopter in the Individual Inspection Log Book and/or the Aircraft Log Book.

NOTE 3

You can identify the modification status of the equipment in the Log Cards (FM).

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

- Non-NVG VEMD OG:
 - . Reference B19030FB05 (7050A4316028)
- Or
- . Reference B19030FC05 (7050A4316027).
- Or
- NVG VEMD OG reference B19030WB05 (7050A4316029).

1.B. ASSOCIATED REQUIREMENTS



CAUTION

THIS SERVICE BULLETIN ALLOWS THE INTERCHANGEABILITY BETWEEN THE NON-NVG VEMD AND THE NVG VEMD.

BEFORE YOU COMPLY WITH THIS SERVICE BULLETIN, MAKE SURE THAT THERE WAS NO ALERT SERVICE BULLETIN RELATED TO THIS INSTALLATION. IF THERE IS SUCH AN ALERT SERVICE BULLETIN, MAKE SURE THAT IT IS NOT ISSUED BETWEEN THESE DATES:

- **THE DATE OF APPROVAL OF THIS SERVICE BULLETIN**
- **THE TIME YOU DO THE WORK (GIVEN IN THIS SERVICE BULLETIN) ON THE HELICOPTER.**

1.C. REASON

Following the obsolescence of the non-NVG (Night Vision Goggles) VEMD and the NVG VEMD OG (Old Generation), the objective of this Service Bulletin is to allow the interchangeability between the NVG VEMD OG or the non-NVG VEMD with the NVG VEMD NG (New Generation).

The NVG VEMD NG reference B19030WC06 (704A47270231) incorporates, through software version G4913AAA11 (Airbus Helicopters version: 11 – THALES version: 06), the following improvements:

- Extension of the waiting time before performing the test on Light Management in order to prevent the brightness from blocking in specific circumstances
- Declaration of new VEMD references to be read and displayed on the "Test Page"
- Correction of an issue related to the display, on the ground, of the 8th digit of the equipment reference.

1.D. DESCRIPTION

This Service Bulletin includes the work steps that follow:

- Removal of the obsolete:
 - . Non-NVG VEMD
- Or
- . NVG VEMD OG
- Sending of the non-NVG VEMD or NVG VEMD OG to the manufacturer
- Receipt and check of the NVG VEMD NG reference B19030WC06 (704A47270231)
- Installation of the new NVG VEMD NG.

The only difference between an NVG VEMD NG and a non-NVG VEMD is the color of the keyboard backlighting, which is white on a non-NVG VEMD and green on an NVG VEMD NG.

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.](#)

Non-installed equipment or parts:

Not applicable.

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.

1.G. MANPOWER



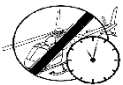
Airbus Helicopters recommends that the personnel who will do this Service Bulletin have this qualification:

Qualification: 1 Avionics Technician.



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

Estimated Man-hours: 3 hours for the Avionics 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

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):

AMM: 24-00-00, 3-1: General Safety Instructions - Electrical Power Supply System

AMM: 31-61-00, 4-1: Removal / Installation - VEMD

AMM: 31-61-00, 5-3: Functional Tests - VEMD Static Pressure Measurement

AMM: 72-01-00, 3-1: Procedure for counting the cycles - Arrius 2F engine

Standard Practices Manual (MTC):

MTC: 20-07-02-201: Helicopter parked in a repair shop - Safety 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

Flight Manual (FLM).

Information Notice (IN):

IN: 3481-I-00: The Marketplace: an AirbusWorld eOrdering service

IN: 3785-I-00: Introduction of the digital Service Bulletin reporting service SB Insight

IN: 3686-I-00: GENERAL - Publishing of complementary Instructions for Continued Airworthiness through Delivery Notes

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.

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.008.0037 until the information is available in the published technical documentation.

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

NOTE 4

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

1.M. PART INTERCHANGEABILITY OR MIXABILITY

Interchangeability:

The PRE MOD:

- Non-NVG VEMD OG reference B19030FB05 (7050A4316028)

Or

- Non-NVG VEMD OG reference B19030FC05 (7050A4316027)

Or

- NVG VEMD OG reference B19030WB05 (7050A4316029)

are one-way interchangeable with the POST MOD NVG VEMD NG reference B19030WC06 (704A47270231).

Mixability:

This Service Bulletin has no effect on the mixability.

2. EQUIPMENT OR PARTS INFORMATION

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

Contact THALES. Refer to paragraph [2.D.](#)

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 or parts to be ordered separately:

Key Word	Qty	New Reference	Item	Former Reference→	Instruction
NVG VEMD (NG)	1	B19030WC06 (704A47270231)	1	B19030FB05 (7050A4316028) or B19030FC05 (7050A4316027) or B19030WB05 (7050A4316029)	Send back to manufacturer (see paragraph 2.D.)

Consumables to be ordered separately:

Refer to the Work Cards and Tasks identified 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 and Tasks identified in this Service Bulletin.

2.D. EQUIPMENT OR PARTS TO BE RETURNED

Send the non-NVG VEMD or NVG VEMD OG back to:

Thales AVS France SAS
5 rue Marcel Dassault
86100 Châtelleraut
France

Or

Thales Avionics, Inc.
7415 Emerald Dunes Drive, Suite 2000
Orlando, FL 32822
USA

Or

Thales Solutions ASIA PTE. LTD
28 Changi North Rise
498788 SINGAPORE
SINGAPORE

3. ACCOMPLISHMENT INSTRUCTIONS

3.A. GENERAL

Comply with the general safety instructions about electrical power. Refer to Task 24-00-00, 3-1 (AMM).

3.B. WORK STEPS



CAUTION

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 hangar. Refer to Work Card 20-07-02-201 (MTC).
- Disconnect all the electrical power supplies.
- Install the applicable access equipment.
- Refer to the technical documentation procedure (AMM) to remove the equipment and furnishings as necessary and to get access to the work zone.

3.B.2. Procedure

Before you remove the VEMD, record the Ng and Nf cycles. Refer to Task 72-01-00, 3-1 (AMM).

3.B.2.a. Removal and sending of the non-NVG VEMD or NVG VEMD OG ([Figure 1](#))

- Refer to Task 31-61-00, 4-1 (AMM) to remove from the instrument panel (e):
 - . Non-NVG VEMD OG (a) reference B19030FB05 (7050A4316028)
 - or
 - . Non-NVG VEMD OG (b) reference B19030FC05 (7050A4316027)
 - or
 - . NVG VEMD OG (c) reference B19030WB05 (7050A4316029).
- Send the non-NVG VEMD (a) or (b) or the NVG VEMD OG (c) back to the manufacturer. Refer to paragraph [2.D](#).

3.B.2.b. Receipt and installation of the VEMD NVG NG ([Figure 1](#))

- Make sure that the reference of the NVG VEMD NG (1) sent back by the manufacturer is the reference B19030WC06 (704A47270231).
- Refer to Task 31-61-00, 4-1 (AMM) to:
 - . Install the NVG VEMD NG (1)
 - . Do the configuration of the NVG VEMD NG (1)
 - . Do the calibration of the NVG VEMD NG (1).

3.B.3. Tests

- Set the helicopter to test condition.
- Connect all the electrical power supplies.
- Energize the helicopter electrical systems.
- Do a test of the NVG VEMD NG (1). Refer to Task 31-61-00, 5-3 (AMM).

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3.B.4. Final steps

- De-energize the helicopter electrical systems.
- Clean and apply the close-up procedure to the work areas and the helicopter. Refer to Work Card 20-07-03-408 (MTC).
- Refer to the technical documentation procedure (AMM) to install the equipment and furnishings that you removed during the preliminary steps (paragraph [3.B.1.](#) of this Service Bulletin).
- Remove the access equipment.

3.B.5. Ground run-up / Flight test

Do two run-ups to update the Ng cycles (Gas generator rpm) and Nf cycles (Free Turbine rpm) after the replacement of the VEMD. Refer to Task 72-01-00, 3-1 (AMM) and FLM SECTION 8.3.

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 3785-I-00 for instructions):
QR code or hypertext link



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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Tracking of modifications in the documentation:

Refer to Work Card 20-08-50-101 (MTC) to record the removal of the VEMD in its Log Card:

- Reference B19030FB05 (7050A4316028)
- Reference B19030FC05 (7050A4316027)
- Reference B19030WB05 (7050A4316029).

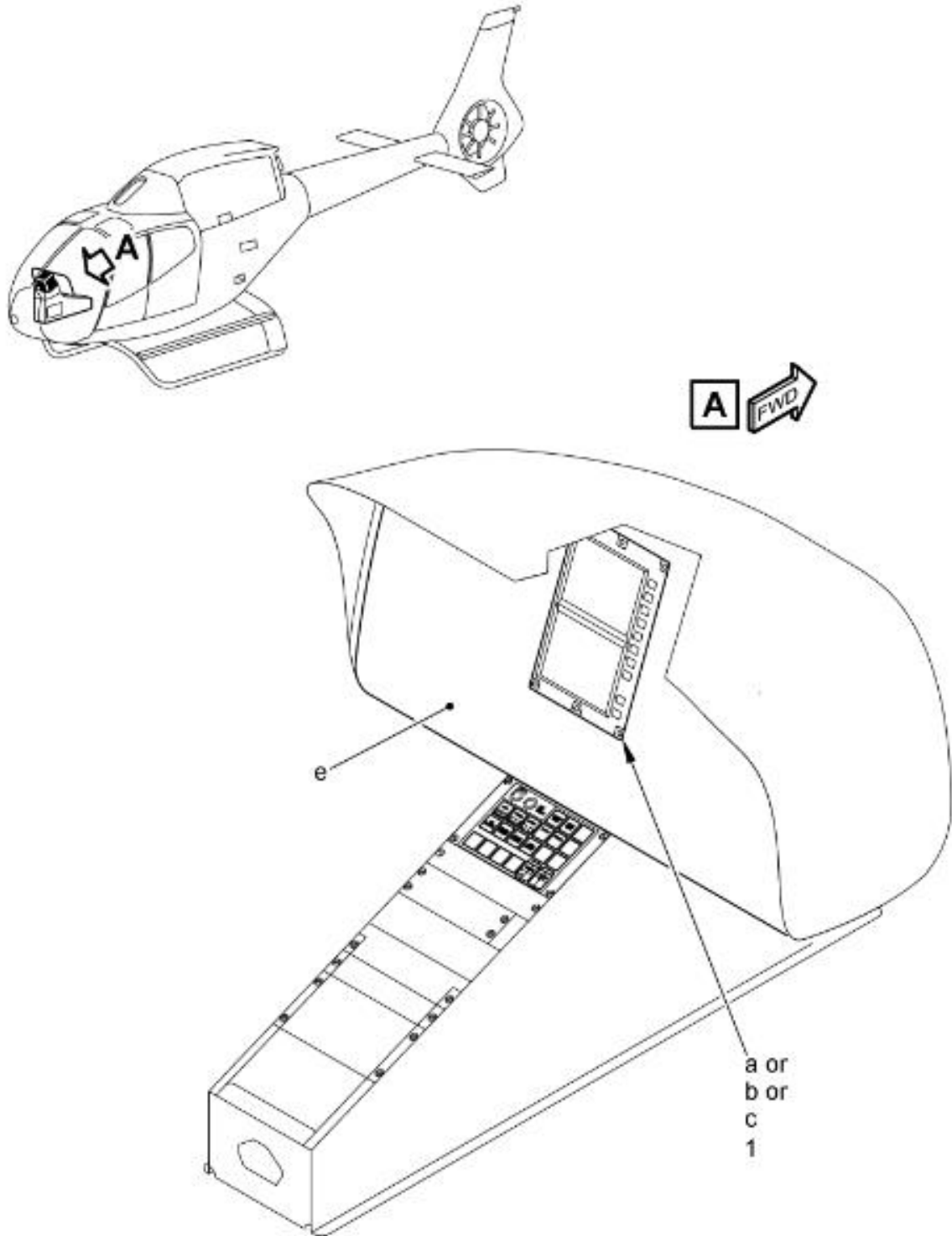
Refer to Work Card 20-08-50-101 (MTC) to record the installation of the VEMD NVG NG in its Log Card:

- Reference B19030WC06 (704A47270231).

3.D. OPERATING AND MAINTENANCE INSTRUCTIONS

Not applicable.

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

Figure 1