

No. EC120-31-010

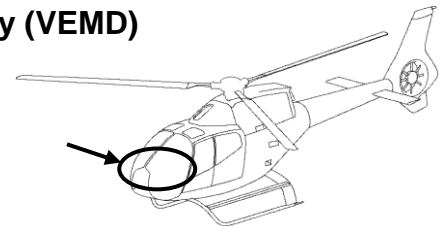
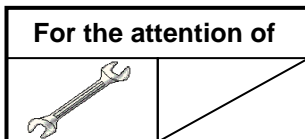
Civil version(s): B

# SERVICE BULLETIN

## OBSOLESCENCE MANAGEMENT

### INDICATING AND RECORDING SYSTEMS

#### Interchangeability of the Vehicle Engine Management Display (VEMD)



Revision No.	Date of issue
Revision 0	2021-12-20

#### Summary:

The function of this Service Bulletin is to make sure that the interchangeability between the NVG Vehicle Engine Management Display (VEMD) and the non-NVG VEMD is permitted because of obsolescence of the non-NVG VEMD variant on the non-NVG helicopter.

#### Compliance:

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

## No. EC120-31-010

### 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 that have one of the non-NVG VEMDs below:

- MP/N B19030FB04 (P/N 7050A4316026)
- MP/N B19030FC04 (P/N 7050A4316024)
- MP/N B19030FB05 (P/N 7050A4316028)
- MP/N B19030FC05 (P/N 7050A4316027).

#### **NOTE 1**

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

#### **NOTE 2**

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

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

Non-NVG VEMD:

- MP/N B19030FB04 (P/N 7050A4316026)
- MP/N B19030FC04 (P/N 7050A4316024)
- MP/N B19030FB05 (P/N 7050A4316028)
- MP/N B19030FC05 (P/N 7050A4316027).

## No. EC120-31-010

### 1.B. ASSOCIATED REQUIREMENTS



#### **CAUTION**

**THIS SERVICE BULLETIN MAKES SURE THAT THE INTERCHANGEABILITY BETWEEN THE NON-NVG VEMD AND THE NVG VEMD IS PERMITTED. 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

The function of this Service Bulletin is to make sure that the interchangeability between the NVG VEMD and the non-NVG VEMD is permitted because of obsolescence of the non-NVG VEMD variant on the non-NVG helicopter.

### 1.D. DESCRIPTION

This Service Bulletin includes the work steps that follow:

- Removal of the obsolete non-NVG VEMD
- Installation of the new NVG VEMD.

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

### 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.B.](#)

Non-installed equipment or parts:

Not applicable.

### No. EC120-31-010

#### 1.F. APPROVAL

##### Approval of modifications:

The information or instructions relate to modification COA08030A issue 2, which was approved on December 16, 2021 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 December 17, 2021 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 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.

## No. EC120-31-010

### 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

#### Information Notice (IN)

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

### 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.**

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

### 1.M. PART INTERCHANGEABILITY OR MIXABILITY

#### Interchangeability:

The PRE MOD and POST MOD VEMD equipment items are interchangeable under some conditions. Refer to paragraph [2.C.](#)

#### Mixability:

Not applicable.

## No. EC120-31-010

### 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 P/N	Item	Former P/N	→	Instruction
VEMD NVG	1	B19030WB04 (7050A4316025)	1	B19030FB04 (7050A4316026) or B19030FC04 (7050A4316024)		Send back to manufacturer (see paragraph <a href="#">2.D.</a> )
VEMD NVG	1	B19030WB05 (7050A4316029)	2	B19030FB05 (7050A4316028) or B19030FC05 (7050A4316027)		Send back to manufacturer (see paragraph <a href="#">2.D.</a> )

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.

---

## No. EC120-31-010

### 2.D. EQUIPMENT OR PARTS TO BE RETURNED

Send the non-NVG VEMD back to:

SDV Aerospace c/o Thales Avionics  
Zone de Fret 3 - SAGAFRO  
3 Rue du Remblai  
BP 16355  
95706 Roissy Charles de Gaulle Cedex  
FRANCE

Or  
Thales Avionics, Inc.  
140 Centennial Ave  
Piscataway, NJ 08854  
USA

Or  
Thales Solutions ASIA PTE. LTD  
21 Changi North Rise  
498788 SINGAPORE  
SINGAPORE

### No. EC120-31-010

## 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

#### 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 ([Figure 1](#))

- Refer to Task 31-61-00, 4-1 (AMM) to remove one of the non-NVG VEMDs that follow from the instrument panel (e):
  - . MP/N B19030FB04 (P/N 7050A4316026) (a)
  - . MP/N B19030FC04 (P/N 7050A4316024) (b)
  - . MP/N B19030FB05 (P/N 7050A4316028) (c)
  - . MP/N B19030FC05 (P/N 7050A4316027) (d).
- Send the non-NVG VEMD (a) or (b) or (c) or (d) back to the manufacturer. Refer to paragraph [2.D](#).

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

- Make sure that the MP/N of the NVG VEMD (1) or (2) sent back by the manufacturer is:
  - . MP/N B19030WB04 (P/N 7050A4316025) (1)
  - . MP/N B19030WB05 (P/N 7050A4316029) (2).
- Do a test of the NVG VEMD (1) or (2). Refer to Task 31-61-00, 5-3 (AMM).
- Refer to Task 31-61-00, 4-1 (AMM):
  - . Install the VEMD (1) or (2).
  - . Do the configuration of the VEMD (1) or (2).
  - . Do the calibration of the VEMD (1) or (2).

#### 3.B.3. Tests

- Set helicopter to test condition.
- Connect all the electrical power supplies.
- Energize the helicopter electrical systems.

#### 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.
- Set the helicopter to flight condition.



## No. EC120-31-010

### 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).

### 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 31-010](#)

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:

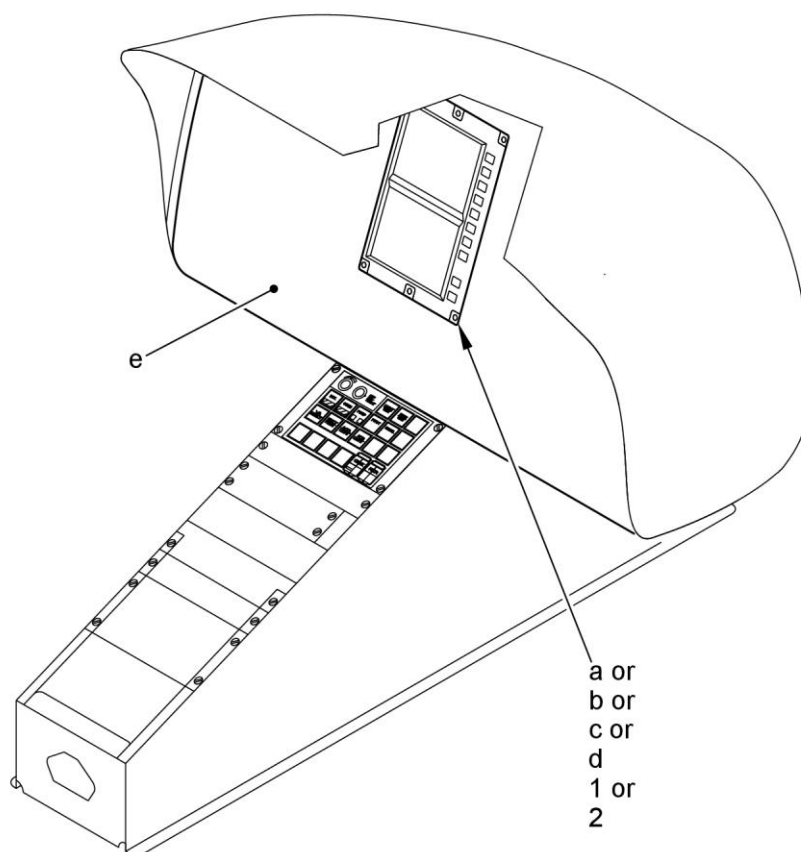
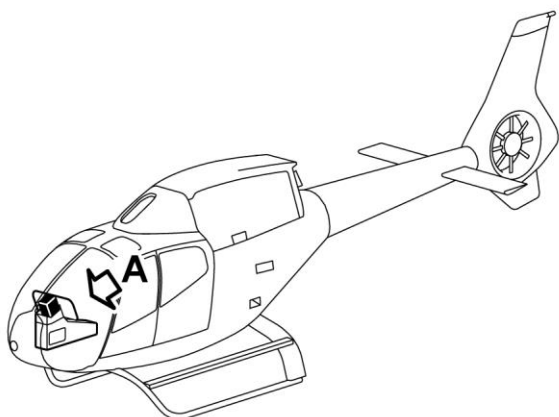
- . MP/N B19030FB04 (P/N 7050A4316026) (a)
- . MP/N B19030FC04 (P/N 7050A4316024) (b)
- . MP/N B19030FB05 (P/N 7050A4316028) (c)
- . MP/N B19030FC05 (P/N 7050A4316027) (d)

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

- . MP/N B19030WB04 (P/N 7050A4316025)
- . MP/N B19030WB05 (P/N 7050A4316029)

### 3.D. OPERATING AND MAINTENANCE INSTRUCTIONS

Not applicable.



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

Figure 1