



TECHNICAL INFORMATION LETTER

TIL N° T-169-23-005
 T-189-23-003
DATE: August 04, 2023
REV.: /

To: Leonardo Helicopters products
 Owners / Operators / Service Centres

SUBJECT: AW169/AW189 IETP Multimedia Supplement

Helicopters Affected: AW169 and AW189

Dear Customer,

Leonardo Helicopters (LH) is pleased to inform you that, a new Interactive Electronic Technical Publications (IETP) Multimedia Supplement (MS) for AW169 and AW189 is now available in the publications library of the Leonardo Customer Portal (LCP). The initiative is an additional milestone of the continuous improvement process of our Technical Publications with the aim to enhance the Customer experience during the maintenance operations.

The Multimedia Supplement integrates the existing IETP by providing a more detailed visual explanation of critical maintenance steps in the procedures introducing:

- Video tutorial for Aircraft Maintenance Publication (AMP) data modules
- Animated sequences for AMP data modules
- 3D models for the Illustrated Parts Data publication (IPD) data modules

The Annex A provides an overview of the MS main features that can be easily downloaded from the LCP. In addition, those features will be soon included in IETP Amerigo 4 Mobile within 2023.

For additional information, please do not hesitate to refer to LH Engineering Support team (engineering.support.lhd@leonardo.com).

Yours Sincerely,

A handwritten signature in black ink, appearing to read "Marco D'Adamo".

Marco D'Adamo
Head of Product Support Engineering

Annex A

In the following pages, the contents introduced by the Multimedia Supplement are detailed through examples and pictures. The new contents add a different visualization of the technical information for AMP and IPD manuals.

For **AMP** manual, the available contents are the following:

- [Video tutorial](#)

The whole procedure of the DM is shown in a dedicated video.

It is possible to start the video by clicking the VIDEO TUTORIAL link located before the Procedure.

[VIDEO TUTORIAL](#)

Procedure

- 1 Make sure that the Platform is adjacent to the right side of the tail rotor.
- 2 Clean the slider bushing (3, Fig 1) and its housing in the shaft (2) with the **Lint-free cloth (C011)** and the **Corrosion inhibitor remover (C273)** or the **Solvent (C005)** or the **Acetone (C087)**.

When the VIDEO TUTORIAL link is selected, the Video section windows opens and the tutorial start.

The screenshot shows a technical manual window with the following content:

- WARNINGS**
 - The materials that follow are dangerous. Before you do this procedure, make sure that you know all the safety precautions and first aid instructions for these materials:
 - Cleaning solvent (C010)
 - Aliphatic naphtha (C059)
 - Grease (C329).
 - Be careful when you install the main rotor head. The main rotor head is heavy. An incorrect movement can cause an injury to persons and/or damage to the equipment.
- CAUTION**

The main rotor head includes critical parts. Examine the components for signs of structural damage, before you install it on the helicopter. Refer to 89-A-00-50-00-00A-010A-A.
- VIDEO TUTORIAL** (highlighted with a red box)
- Procedure**
 - 1 Put the Platform (GG-01-00) adjacent to the left side of the fuselage.
 - 2 Connect the Main rotor head sling (HA-02-00) to the Lifting device (ZZ-00-00).
 - 3 Install the sling on the main rotor head (1, Fig 1). Refer to the applicable steps of 89-A-62-22-00-00A-722A-A.
- CAUTION**


To prevent damage to the splines of the main rotor hub (5) and the splines of the trolley mast, make sure that the main rotor head (1) is aligned with the trolley mast during the removal.
- 4 Carefully lift the main rotor head (1) from the trolley with the Lifting device (ZZ-00-00). Make sure to lift the main rotor head (1) aligned with the trolley mast to prevent damages.
- 5 Clean these parts of the main rotor head (1) with the Lint-free cloth (C011) and the Cleaning solvent (C010) or the Aliphatic naphtha (C059):
 - The bottom conical ring (9)
 - The seat of the top conical ring on the main rotor hub (6)
 - The splines of the main rotor hub (5).
- 6 Dry the parts you cleaned with a clean Lint-free cloth (C011) before the solvent evaporates.

The right pane shows a 3D CAD model of the main rotor head assembly being lifted by a yellow trolley.

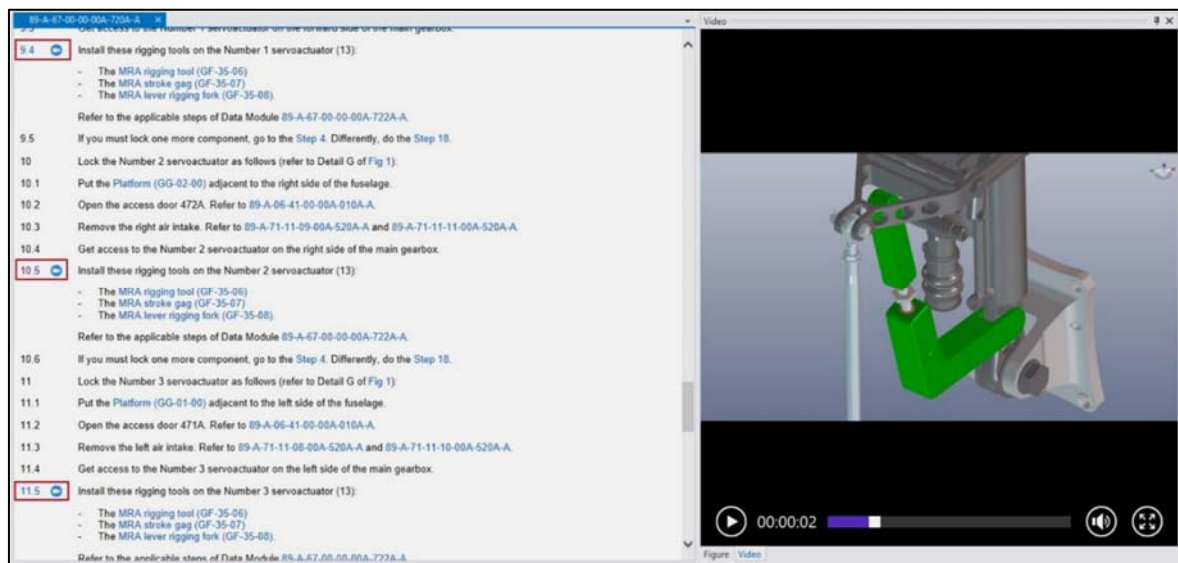
- Animated sequences

The animated sequence feature shows, sequentially, only a single step per time of the procedure. It is possible to start the animated sequence by clicking the step number at every single step the operator intends to see the sequence.

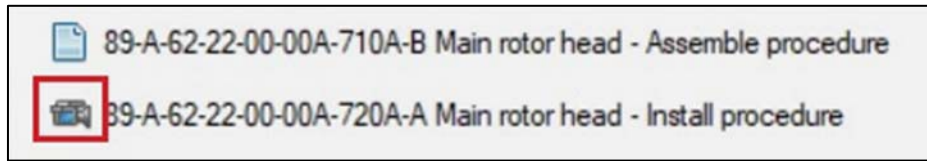
A video camera icon positioned aside the step number indicates which step of the procedure is linked to an animated sequence.

5	Identify, with reference to the red dot on the retaining element (5), the heads of the 12 bolts (4) with the numbers 1 thru 12 as shown in Fig 1. Use a permanent marking pen. (VP)
6	<div style="display: flex; align-items: center; gap: 10px;">  <div> <p>Fully loosen the 12 nuts (3) in the sequence shown in Fig 1 (from 1 to 12). (VP)</p> <p>Note</p> <p>During the torque check, only one "Torque check reporting proforma" must be recorded, and, for each bolt, you must record only the lowest value of the torque that could not be sustained.</p> </div> </div>

When the Animated sequence link is selected, the Video section windows opens and the sequence start.



The DMs that have multimedia contents (video tutorials or animated sequences) embedded are recognizable by the following icon in the list of Data Modules (tree-view):



Examples for the AW189 and AW169 AMP new contents are the following:

- DM with embedded Video tutorial
 - 89-A-62-22-00-00A-720A-A Main rotor head - Install procedure
 - 69-A-62-22-04-00A-720A-A Main rotor head - Install procedure

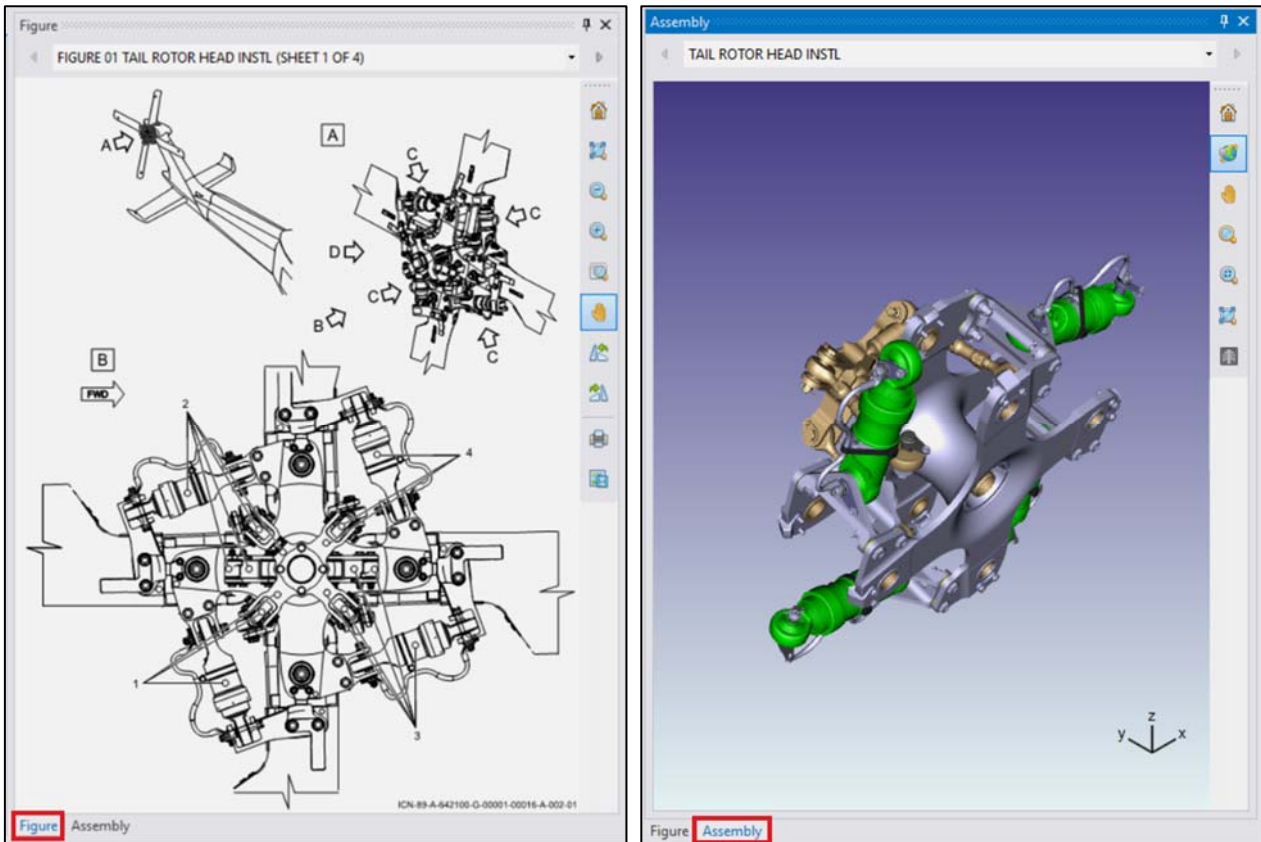
- DM with embedded Animated Sequences
 - 89-A-67-00-00-00A-720A-A Rotor flight controls - Rigging tools - Install procedure
 - 69-A-67-00-00-00A-722A-A Rotors flight controls - Rigging tools - Install support equipment/Install on support equipment

For the **IPD** manual, 3D figures are available.

It is possible to show the 3D figure feature by clicking the part number listed in the DM.

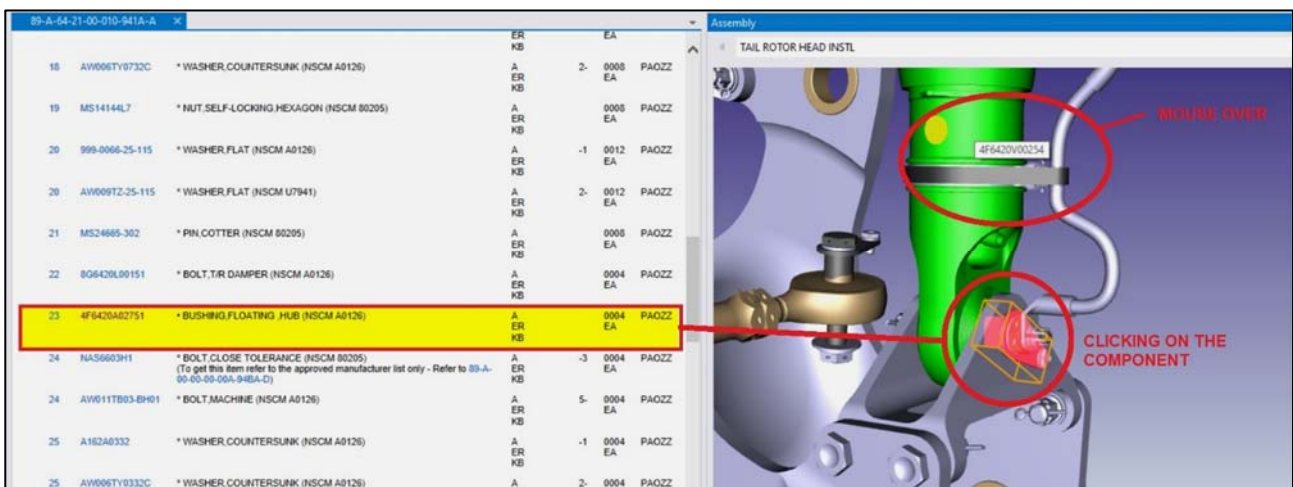
TAIL ROTOR HEAD INSTL – Illustrated Parts Data						
FIG	PART	DESCRIPTION	**UOCA..	ICY	QNHA	SMR..
ITEM	NUMBER.....	1 2 3 4 5 6 7 8 9	MV/EFFECT..		UI	
01						
-	0	8G6400A00111	TAIL ROTOR HEAD INSTL (NSCM A0126) (Refer to 00-00-00 Fig 02 Item 012 for NHA)	A ER KB		REF XC
	1	999-2701-02-212	* DECAL (NSCM A0126)	A ER KB	0003 EA	PAOZZ
	2	999-2701-02-232	* DECAL (NSCM A0126)	A ER	0005 EA	PAOZZ

It is also possible to open the 2D/3D figure by selecting the Figure/Assembly tabs of the Section on the right vertical Menu of the IETP.

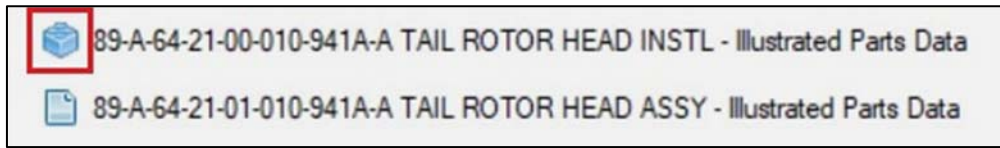


Two additional features have been embedded within this Multimedia Supplement to enhance the figure 3D navigation user experience:

- With the “mouse over” feature, the part number will be shown directly moving on the component in the picture.
- In addition, By clicking on a component, it will be highlighted in the part list.



In the tree-view of the IPD, the DMs that have multimedia contents (3D models) embedded are recognizable by the following icon:



An example for the AW189 and AW169 IPD DMs with embedded 3D models are the following:

➤ DM with embedded 3D model

89-A-64-21-00-010-941A-A TAIL ROTOR HEAD INSTL - Illustrated Parts Data

69-A-64-21-00-010-941A-A TAIL ROTOR HEAD INSTALLATION - Illustrated Parts Data