



■ AgustaWestland **AW**<sup>189</sup>  
■ **AW189**  
**SOFTWARE HANDBOOK**

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**AW189**

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## 1 SCOPE

Scope of this Handbook is to provide a list of the software installation applicable to the AW189 helicopter fleet. The handbook will also describe the Software package identification logic.

## 2 APPLICABILITY

This Handbook is applicable to all AW189 helicopters.

## 3 RELATED DOCUMENTS

### 3.1 Applicable Documents

- |                         |   |
|-------------------------|---|
| [1] <b>189G0290X002</b> | AW189 Rotorcraft Flight Manual for helicopter equipped with GE engine.              |
| [2] <b>189G0290X006</b> | AW189 Rotorcraft Flight Manual for helicopter equipped with Safran Aneto-1K engine. |

## 4 ACRONYMS AND DEFINITIONS

### 4.1 Acronyms

- |            |                          |
|------------|--------------------------|
| <b>RFM</b> | Rotorcraft Flight Manual |
| <b>CRC</b> | Cyclic Redundancy Check  |





## 5 SOFTWARE RELEASE

### 5.1 Software package identification logic

- The first digit is dedicated to the Software Phase. It identifies the Software packages having an impact on the limitation on the Rotorcraft Flight Manual;
- The second digit is dedicated for changes that haven't impact limitation to the flight crew like (modification due to hardware obsolescence) but having an impact on the Rotor Flight Manual. This included also changes that having impact on emergency procedure.
- An eventually third digit, not shown to the customer, is dedicated for software updating to cover bug fixing which have no impact on the Rotorcraft Flight Manual and they are transparent to the flight crew.

These rules will be fully applicable from next software phase. Phase 2.1 doesn't fully comply with the above rule.



## 6 SOFTWARE INSTALLATION

Following is the list of the available software installation packages with reference to the AW189 Rotorcraft Flight Manual issue.

In the tables is including the CRC of the most important software.

### 6.1 Software Installation Phase 2.0 (for GE engine only)

*The Software Phase 2.0 is no more applicable to the AW189 helicopter fleet*

Part Number	Description	CRC	NOTE
<b>8G4600A00112</b>	<b>SOFTWARE INSTALLATION PHASE 2.0</b>	<b>N.A.</b>	
<b>8G4640A00112</b>	<b>AVIONICS FLIGHT SOFTWARE INSTALLATION</b>	<b>N.A.</b>	
8G4620AA0202	AMMC OPSW	FFBA7C01	
4F4620VM0100	AMMC DMG SW REL	1F7505FA	
8G4640AO0001	AFDX CONFIGURATION SWITCH	N.A.	
8G2210AS0202	AFCS OPERATIONAL SOFTWARE	B5EA9E4B	
8G4630AS0200	CDS OPERATIONAL SOFTWARE	00008CE7	
8G4640IS0100	AFDX SWITCH OPSW	N.A.	
8G4620AB0105	AMMC VAM SW REL.	ED72B9AD	
<b>8G4600A00312</b>	<b>SSEPMS SOFTWARE INSTALLATION</b>	<b>N.A.</b>	
8G4620AS0400	ECDU APSW	27FCA05F	
8G4620AS0300	ECDU APSW (ALT)	C8FE5B04	



## 6.2 Software Installation Phase 2.1 (for GE engine only)

*The Software Phase 2.1 is no more applicable to the AW189 helicopter fleet*

Part Number	Description	Not Applicable
8G4600A00113	SOFTWARE INSTALLATION PHASE 2.1	-

### 6.2.1 Software Installation Phase 2.1.0

Part Number	Description	CRC	NOTE
8G4640A00113 - A	AVIONICS FLIGHT SOFTWARE INSTALLATION	N.A.	
8G4620AA0205	AMMC OPSW	C4C4B9C5	
4F4620VM0100	AMMC DMG SW REL	1F7505FA	
8G4640AO0002	AFDX CONFIGURATION SWITCH	N.A.	
8G2210AS0202	AFCS OPERATIONAL SOFTWARE	B5EA9E4B	
8G4630AS0201	CDS OPERATIONAL SOFTWARE	000084DD	
8G4640IS0100	AFDX SWITCH OPSW	N.A.	
8G4620AB0105	AMMC VAM SW REL.	ED72B9AD	
8G4600A00313 - A	SSEPMS SOFTWARE INSTALLATION	N.A.	
8G4620AS0401	ECDU APSW	A8CD1459	

Software Installation Phase 2.1 is applicable only with FADEC GE EECU SW V4.0.



### 6.3 Software Installation Phase 3.0 (for GE engine only)

Part Number	Description	Not Applicable
8G4600A00114	SOFTWARE INSTALLATION PHASE 3.0	-

#### 6.3.1 Software Installation Phase 3.0.0

*The Software Phase 3.0.0 is no more applicable to the AW189 helicopter fleet*

Part Number	Description	CRC	NOTE
<b>8G4640A00114 - A</b>	<b>AVIONICS FLIGHT SOFTWARE INSTALLATION</b>	<b>N.A.</b>	
8G4620AA0301	AMMC OPSW	0xA9F92026	
4F4620VM0100	AMMC DMG SW REL	1F7505FA	
8G4640AO0003	AFDX CONFIGURATION SWITCH	N.A.	
8G2210AS0300	AFCS OPERATIONAL SOFTWARE	0xDC7476B1	
8G4630AS0300	CDS OPERATIONAL SOFTWARE	00004495	
8G4640IS0100	AFDX SWITCH OPSW	N.A.	
8G4620AB0105	AMMC VAM SW REL.	ED72B9AD	
<b>8G4600A00314 - A</b>	<b>SSEPMS SOFTWARE INSTALLATION</b>	<b>N.A.</b>	
8G4620AS0401	ECDU APSW	A8CD1459	

Software Installation Phase 3.0 is applicable only with FADEC GE EECU SW V4.0.

#### 6.3.2 Software Installation Phase 3.0.1

Part Number	Description	CRC	NOTE
<b>8G4640A00114 - A</b>	<b>AVIONICS FLIGHT SOFTWARE INSTALLATION</b>	<b>N.A.</b>	
8G4620AA0301	AMMC OPSW	0xA9F92026	
4F4620VM0100	AMMC DMG SW REL	1F7505FA	
8G4640AO0003	AFDX CONFIGURATION SWITCH	N.A.	
8G2210AS0300	AFCS OPERATIONAL SOFTWARE	0xDC7476B1	
8G4630AS0300	CDS OPERATIONAL SOFTWARE	00004495	
8G4640IS0100	AFDX SWITCH OPSW	N.A.	
8G4620AB0106	AMMC VAM SW REL.	0x8B49BEB7	
<b>8G4600A00314 - A</b>	<b>SSEPMS SOFTWARE INSTALLATION</b>	<b>N.A.</b>	
8G4620AS0401	ECDU APSW	A8CD1459	

Software Installation Phase 3.0 is applicable only with FADEC GE EECU SW V4.0.



## 6.4 Software Installation Phase 4.0 (for GE engine only)

Part Number	Description	Not Applicable
8G4600A00115	SOFTWARE INSTALLATION PHASE 4.0	IAC

### 6.4.1 Software Installation Phase 4.0.0

*The Software Phase 4.0.0 is no more applicable to the AW189 helicopter fleet*

Part Number	Description	CRC	NOTE
<b>8G4640A00115 - A</b>	<b>AVIONICS FLIGHT SOFTWARE INSTALLATION</b>	<b>N.A.</b>	
8G4620AA0401	AMMC OPSW	0x00567d7b	
4F4620VM0100	AMMC DMG SW REL	1F7505FA	
8G4640AO0003	AFDX CONFIGURATION SWITCH	N.A.	
8G2210AS0400	AFCS OPERATIONAL SOFTWARE	0x195161D6	
8G4630AS0401	CDS OPERATIONAL SOFTWARE	9D93	
8G4640IS0100	AFDX SWITCH OPSW	N.A.	
8G4620AB0105	AMMC VAM SW REL.	ED72B9AD	
<b>8G4600A00315 - A</b>	<b>SSEPMS SOFTWARE INSTALLATION</b>	<b>N.A.</b>	
8G4620AS0401	ECDU APSW	A8CD1459	

Software Installation Phase 4.0 is applicable only with FADEC GE EECU SW V5.0.

### 6.4.2 Software Installation Phase 4.0.1

*The Software Phase 4.0.1 is no more applicable to the AW189 helicopter fleet*

Part Number	Description	CRC	NOTE
<b>8G4640A00115 - B</b>	<b>AVIONICS FLIGHT SOFTWARE INSTALLATION</b>	<b>N.A.</b>	
8G4620AA0402	AMMC OPSW	0x51B55F43	
4F4620VM0100	AMMC DMG SW REL	1F7505FA	
8G4640AO0003	AFDX CONFIGURATION SWITCH	N.A.	
8G2210AS0400	AFCS OPERATIONAL SOFTWARE	0x195161D6	
8G4630AS0401	CDS OPERATIONAL SOFTWARE	9D93	
8G4640IS0100	AFDX SWITCH OPSW	N.A.	
8G4620AB0105	AMMC VAM SW REL.	ED72B9AD	
<b>8G4600A00315 - A</b>	<b>SSEPMS SOFTWARE INSTALLATION</b>	<b>N.A.</b>	
8G4620AS0401	ECDU APSW	A8CD1459	

Software Installation Phase 4.0.1 is applicable only with FADEC GE EECU SW V5.0.

**6.4.3 Software Installation Phase 4.0.2**

<b>Part Number</b>	<b>Description</b>	<b>CRC</b>	<b>NOTE</b>
<b>8G4640A00115 - B</b>	<b>AVIONICS FLIGHT SOFTWARE INSTALLATION</b>	<b>N.A.</b>	
8G4620AA0402	AMMC OPSW	0x51B55F43	
4F4620VM0100	AMMC DMG SW REL	1F7505FA	
8G4640AO0003	AFDX CONFIGURATION SWITCH	N.A.	
8G2210AS0400	AFCS OPERATIONAL SOFTWARE	0x195161D6	
8G4630AS0401	CDS OPERATIONAL SOFTWARE	9D93	
8G4640IS0100	AFDX SWITCH OPSW	N.A.	
8G4620AB0106	AMMC VAM SW REL.	0x8B49BEB7	
<b>8G4600A00315 - A</b>	<b>SSEPMS SOFTWARE INSTALLATION</b>	<b>N.A.</b>	
8G4620AS0401	ECDU APSW	A8CD1459	

Software Installation Phase 4.0.2 is applicable only with FADEC GE EECU SW V5.0.



## 6.5 Software Installation Phase 5.0 (for GE engine only)

Part Number	Description	Not Applicable
8G4600A00116	SOFTWARE INSTALLATION PHASE 5.0	IAC; ANAC

### 6.5.1 Software Installation Phase 5.0.0

*The Software Phase 5.0.0 is no more applicable to the AW189 helicopter fleet*

Part Number	Description	CRC	NOTE
8G4640A00116 - A	AVIONICS FLIGHT SOFTWARE INSTALLATION	N.A.	
8G4620AA0500	AMMC OPSW	0x4710aa16	
4F4620VM0201	AMMC DMG SW REL	0x2F4AF052	
8G4640AO0004	AFDX CONFIGURATION SWITCH	N.A.	
8G2210AS0500	AFCS OPERATIONAL SOFTWARE	0xAE6788C9	
8G4630AS0500	CDS OPERATIONAL SOFTWARE	5E01	
8G4640IS0100	AFDX SWITCH OPSW	N.A.	
8G4620AB0105	AMMC VAM SW REL.	ED72B9AD	
8G4620VS0200	DTD	N.A.	
8G4600A00316 - A	SSEPMS SOFTWARE INSTALLATION	N.A.	
8G4620AS0401	ECDU APSW	A8CD1459	

Software Installation Phase 5.0 is applicable only with FADEC GE EECU SW V5.0.

Software Installation Phase 5.0 is applicable only with software cabin PC P/N 8G4620FS0105.

**6.5.2 Software Installation Phase 5.0.1***The Software Phase 5.0.1 is no more applicable to the AW189 helicopter fleet*

Part Number	Description	CRC	NOTE
<b>8G4640A00116 - A</b>	<b>AVIONICS FLIGHT SOFTWARE INSTALLATION</b>	<b>N.A.</b>	
8G4620AA0500	AMMC OPSW	0x4710aa16	
4F4620VM0201	AMMC DMG SW REL	0x2F4AF052	
8G4640AO0004	AFDX CONFIGURATION SWITCH	N.A.	
8G2210AS0500	AFCS OPERATIONAL SOFTWARE	0xAE6788C9	
8G4630AS0500	CDS OPERATIONAL SOFTWARE	5E01	
8G4640IS0100	AFDX SWITCH OPSW	N.A.	
8G4620AB0106	AMMC VAM SW REL.	0x8B49BEB7	
8G4620VS0200	DTD	N.A.	
<b>8G4600A00316 - A</b>	<b>SSEPMS SOFTWARE INSTALLATION</b>	<b>N.A.</b>	
8G4620AS0401	ECDU APSW	A8CD1459	

Software Installation Phase 5.0 is applicable only with FADEC GE EECU SW V5.0.

Software Installation Phase 5.0 is applicable only with software cabin PC P/N 8G4620FS0105.

**6.5.3 Software Installation Phase 5.0.2**

Part Number	Description	CRC	NOTE
<b>8G4640A00116 - A</b>	<b>AVIONICS FLIGHT SOFTWARE INSTALLATION</b>	<b>N.A.</b>	
8G4620AA0500	AMMC OPSW	0x4710aa16	
4F4620VM0201	AMMC DMG SW REL	0x2F4AF052	
8G4640AO0007	AFDX CONFIGURATION SWITCH	N.A.	
8G2210AS0500	AFCS OPERATIONAL SOFTWARE	0xAE6788C9	
8G4630AS0500	CDS OPERATIONAL SOFTWARE	5E01	
8G4640IS0100	AFDX SWITCH OPSW	N.A.	
8G4620AB0106	AMMC VAM SW REL.	0x8B49BEB7	
8G4620VS0200	DTD	N.A.	
<b>8G4600A00316 - A</b>	<b>SSEPMS SOFTWARE INSTALLATION</b>	<b>N.A.</b>	
8G4620AS0401	ECDU APSW	A8CD1459	

Software Installation Phase 5.0 is applicable only with FADEC GE EECU SW V5.0.

Software Installation Phase 5.0 is applicable only with software cabin PC P/N 8G4620FS0105.





## 6.6 Software Installation Phase 6.0 (for GE engine only)

Part Number	Description	Not Applicable
8G4600A00117	SOFTWARE INSTALLATION PHASE 6.0	FAA; IAC

### 6.6.1 Software Installation Phase 6.0.0

Part Number	Description	CRC	NOTE
8G4640A00117 - A	AVIONICS FLIGHT SOFTWARE INSTALLATION	N.A.	
8G4620AA0600	AMMC OPSW	0x67839790	
4F4620VM0201	AMMC DMG SW REL	0x2F4AF052	
8G4640AO0005	AFDX CONFIGURATION SWITCH	N.A.	
8G2210AS0600	AFCS OPERATIONAL SOFTWARE	0x52278146	
8G4630AS0600	CDS OPERATIONAL SOFTWARE	9819	
8G4640IS0100	AFDX SWITCH OPSW	N.A.	
8G4620AB0106	AMMC VAM SW REL.	0x8B49BEB7	
8G4620VS0200	DTD	N.A.	
8G4600A00317 - A	SSEPMS SOFTWARE INSTALLATION	N.A.	
8G4620AS0401	ECDU APSW	A8CD1459	

Software Installation Phase 6.0 is applicable only with FADEC GE EECU SW V5.0.



## 6.7 Software Installation Phase 7.0

	<b>Not Applicable</b>
<b>GE Engine</b>	
<b>Safran Aneto-1k Engine</b>	
<i>The Software Phase 7.0.1 is no more applicable to the AW189 helicopter fleet with GE Engine and Safran Aneto 1k Engine</i>	

Part Number	Description
8G4600A00118	SOFTWARE INSTALLATION PHASE 7.0

### 6.7.1 Software Installation Phase 7.0.1

Part Number	Description	CRC	NOTE
<b>8G4640A00118 - B</b>	<b>AVIONICS FLIGHT SOFTWARE INSTALLATION</b>	<b>N.A.</b>	
8G4620AA0701	AMMC OPSW	0x38c52dcc	
4F4620VM0201	AMMC DMG SW REL	0x2F4AF052	
8G4640AO0006	AFDX CONFIGURATION SWITCH	N.A.	
8G2210AS0700	AFCS OPERATIONAL SOFTWARE	0x6D2B315A	
8G4630AS0700	CDS OPERATIONAL SOFTWARE	01D4	
8G4640IS0100	AFDX SWITCH OPSW	N.A.	
8G4620AB0106	AMMC VAM SW REL.	0x8B49BEB7	
8G4620VS0200	DTD	N.A.	
<b>8G4600A00318 - A</b>	<b>SSEPMS SOFTWARE INSTALLATION</b>	<b>N.A.</b>	
8G4620AS0401	ECDU APSW	A8CD1459	

For GE Engine:

Software Installation Phase 7.0 is applicable only with FADEC GE EECU SW V6.0.

For Safran Aneto-1K Engine:

Software Installation Phase 7.0 is applicable only with FADEC A110.



## 6.8 Software Installation Phase 8.0

	<b>Not Applicable</b>
<b>GE Engine</b>	<b>FAA; IAC; FATA</b>
<b>Safran Aneto-1k Engine</b>	<b>FAA; IAC; ANAC; FATA</b>

<b>Part Number</b>	<b>Description</b>
<b>8G4600A00119</b>	<b>SOFTWARE INSTALLATION PHASE 8.0</b>

### 6.8.1 Software Installation Phase 8.0.0

<b>Part Number</b>	<b>Description</b>	<b>CRC</b>	<b>NOTE</b>
<b>8G4640A00119 - A</b>	<b>AVIONICS FLIGHT SOFTWARE INSTALLATION</b>	<b>N.A.</b>	
8G4620AA0803	AMMC OPSW	0xdbca6e36	
6F4620VA0201	AMMC DMG SW REL	0xe2189daa	
8G4640AO0008	AFDX CONFIGURATION SWITCH	N.A.	
8G2210AS0700	AFCS OPERATIONAL SOFTWARE	0x6D2B315A	
8G4630AS0800	CDS OPERATIONAL SOFTWARE	41D3	
8G4640IS0100	AFDX SWITCH OPSW	N.A.	
8G4620AB0106	AMMC VAM SW REL.	0x8B49BEB7	
8G4620VS0200	DTD	N.A.	
<b>8G4600A00319 - A</b>	<b>SSEPMS SOFTWARE INSTALLATION</b>	<b>N.A.</b>	
8G4620AS0401	ECDU APSW	A8CD1459	

For GE Engine:

Software Installation Phase 8.0 is applicable only with FADEC GE EECU SW V6.0.

For Safran Aneto-1K Engine:

Software Installation Phase 8.0 is applicable only with FADEC A110

Software Installation Phase 8.0 is applicable only with software cabin PC P/N 8G4620FS0200