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AgustaWestland Products

SERVICE BULLETIN

N° 139-622

DATE: December 14, 2020 REV.: /

TITLE

ATA 28 – KIT CLOSED CIRCUIT REFUELLING RECEIVER (CCRR)

REVISION LOG

First Issue

An appropriate entry should be made in the aircraft log book upon accomplishment. If ownership of aircraft has changed, please, forward to new owner.



1. PLANNING INFORMATION

A. EFFECTIVITY

AB/AW139 helicopters from S/N 31005 onward and from S/N 41001 onward.

B. COMPLIANCE

At Customer's option.

C. CONCURRENT REQUIREMENTS

N.A.

D. REASON

This Service Bulletin is issued in order to provide the necessary instructions on how to perform the installation of the kit closed circuit refueling receiver P/N 4G2820F00111.

E. DESCRIPTION

The kit closed circuit refueling receiver (CCRR) is installed in the same position as the standard filler adapter between the filler ring and the filler neck flange of the tank Number 2. Unlike the basic receiver, the CCRR kit allows the tanks refueling choosing between the gravity mode and the pressure mode.

The CCRR kit P/N 4G2820F00111 is not compatible with the kit locked filler cap P/N 4G2810F00111

F. APPROVAL

The technical content of this Service Bulletin is approved under the authority of DOA nr. EASA.21.J.005. For helicopters registered under other Aviation Authorities, before applying the Service Bulletin, applicable Aviation Authority approval must be checked within Leonardo Helicopters customer portal.

EASA states mandatory compliance with inspections, modifications or technical directives and related time of compliance by means of relevant Airworthiness Directives. If an aircraft listed in the effectivity embodies a modification or repair not LHD certified and affecting the content of this Service Bulletin, it is responsibility of the Owner/Operator to obtain a formal approval by Aviation Authority having jurisdiction on the aircraft, for any adaptation necessary before incorporation of the present Service Bulletin.

G. MANPOWER

To comply with this Service Bulletin two (2) MMH are deemed necessary.



MMH are based on hands-on time and can change with personnel and facilities available.

H. WEIGHT AND BALANCE

	0.812
ARM (mm)	MOMENT (kgmm)
6082	4938.584
963	781.956
	ARM (mm) 6082 963

I. REFERENCES

1) PUBLICATIONS

DATA I	MODULE	DESCRIPTION	<u>PART</u>
DM01	39-A-00-20-00-00A-120A-A	Helicopter on ground for a safe maintenance	-
DM02	39-A-28-11-03-00A-520A-A	Number 2 tank filler cap -	
		Remove procedure	-
DM03	39-A-28-11-04-00A-520A-A	Number 2 tank filler ring -	
		Remove procedure	-
DM04	39-A-28-11-19-00A-520A-A	Number 2 tank filler adapter -	
		Remove procedure	-
DM05	39-A-11-00-01-00A-720A-A	Decal - Install procedure	-
DM06	39-A-28-11-00-00A-364A-A	Fuel tank installation - Leak check	-

2) ACRONYMS

AMDI	Aircraft Material Data Information
AMP	Aircraft Maintenance Publication
CCRR	Closed Circuit Refueling Receiver
DM	Data Module
DOA	Design Organization Approval
EASA	European Aviation Safety Agency
IPD	Illustrated Parts Data
ITEP	Illustrated Tool and Equipment Publication
LHD	Leonardo Helicopters Division
MMH	Maintenance-Man-Hours

3) ANNEX

N.A.



J. PUBLICATIONS AFFECTED

AW139 IPD

K. SOFTWARE ACCOMPLISHMENT SUMMARY

N.A.

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2. MATERIAL INFORMATION

A. REQUIRED MATERIALS

1) PARTS

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N			
1	4G2820F00111		CLOSED CIRCUIT REFUELLING RECEIVER	REF						
2	750000-15		Adapter	1			139-622L1 139-622L2			
3	MS29513-156		O-Ring	1			139-622L1 139-622L2			
4	MS29513-164		O-Ring	1			139-622L1 139-622L2			
5	AN525-416R10		Screw	2			139-622L1 139-622L2			
6		A499AHD125E01N00	Stopoil	4	4	1	1		(1) (2)	130 6221 1
0	A954AD060EN	A499AHD125E04N00	Stendi	I		(1)(2)	139-022L1			
7		A499AHP028E01N00	Stoncil	1	1	(1) (3)	139-622L1			
1	ASSAAFUUJEN	A499AHP028E04N00	Sterici	1						
8		AW001DSD040EQ AW003DBHD080E00Q Stencil	Stencil	1	1	(A) (5)	130-6221 2			
0	ANUUTDODU40LQ		I	••	(-)(3)	155-02222				
٥	AW001DSP015EQ	AW003DBHP025E01Q	Stencil	1		(4) (6)	130-6221 2			
5		AW003DBHP025E00Q	OTENDI				103-022LZ			

2) CONSUMABLES

Refer also to AMDI for the consumable materials required to comply with the AMP DM referenced in the accomplishment instructions.

3) LOGISTIC MATRIX

In order to apply this Service Bulletin, the following Logistic P/N can be ordered in accordance with the applicable notes:

LOGISTIC P/N	Q.TY (PER HELO)	NOTE	PART
139-622L1	1	(1)	-
139-622L2	1	(2)	-

NOTE

- (1) Applicable for AW139 helicopters from S/N 31005 to S/N 31699 and from S/N 41001 to S/N 41499.
- (2) As an alternative to the stencil P/N A954AD080EN it is possible to install together both the decals P/N A499AHD125E01N00 and P/N A499AHD125E04N00.
- (3) As an alternative to the stencil P/N A954AP065EN it is possible to install together both the decals P/N A499AHP028E01N00 and P/N A499AHP028E04N00.
- (4) Applicable for AW139 helicopters from S/N 31700 onward and from S/N 41501 onward.
- (5) As an alternative to the stencil P/N AW001DSD040EQ it is possible to install



together both the decals P/N AW003DBHD080E00Q and P/N AW003DBHD080E01Q.

(6) As an alternative to the stencil P/N AW001DSP015EQ it is possible to install together both the decals P/N AW003DBHP025E01Q and P/N AW003DBHP025E00Q.

B. SPECIAL TOOLS

Refer also to ITEP for the special tools required to comply with the AMP DM referenced in the accomplishment instructions.

C. INDUSTRY SUPPORT INFORMATION

Customization.



3. ACCOMPLISHMENT INSTRUCTIONS

GENERAL NOTES

- a) Place an identification tag on all components that are re-usable, including the attaching hardware that has been removed to gain access to the modification area and adequately protect them until their later reuse.
- b) Protect properly all equipment not removed from area affected by the modification during installation procedure.
- c) All lengths are in mm.
- 1. In accordance with AMP DM 39-A-00-20-00-00A-120A-A prepare the helicopter on ground for a safe maintenance. Disconnect the battery, all electrical power sources and/or the external power supply.
- 2. With reference to Figure 1, gain access to the area affected by the installation and install the kit closed circuit refuelling receiver P/N 4G2820F00111 as described in the following procedure:
 - 2.1 In accordance with AMP DM 39-A-28-11-03-00A-520A-A and with reference to Figure 1 Detail A, remove the filler cap P/N 3G2810V00431.
 - 2.2 In accordance with AMP DM 39-A-28-11-04-00A-520A-A and with reference to Figure 1 Detail A, remove the external filler ring P/N 504333 by removing the 12 screws P/N AN525-416R8 that attach the filler neck to the airframe and retain them for later reuse.
 - 2.3 In accordance with AMP DM 39-A-28-11-19-00A-520A-A and with reference to Figure 1 Detail A, remove the filler adapter P/N 503522-1.
 - 2.4 With reference to Figure 1 Section B-B, lightly push the filler neck to the inner until the O-ring groove is in view and carefully install the O-Ring P/N MS29513-164 in its position.
 - 2.5 With reference to Figure 1 Section B-B, keep the filler neck in its position on the structure and install the O-Ring P/N MS29513-156 on the filler neck.
 - 2.6 With reference to Figure 1 Detail A and Section B-B, carefully insert the adapter P/N 750000-15 into the filler neck, ensuring that the arrow on the outside of the fuel adapter is facing upward.
 - 2.7 With reference to Figure 1 Detail A and Section B-B, fix the external filler ring P/N 504333 to the filler neck by means of n°10 existing screws P/N AN525-416R8.

2.8 With reference to Figure 1 Detail A, install the filler cap of the adapter P/N 750000-15 by means of n°2 screws P/N AN525-416R10.

NOTE

Perform the following step only for AW139 helicopters from S/N 31201 to S/N 31699 and from S/N 41201 to S/N 41499.

2.9 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 1 view looking inboard right side, install the stencil P/N A954AD080EN and the stencil P/N A954AP065EN.

NOTE

Perform the following step only for AW139 helicopters from S/N 31700 onward and from S/N 41501 onward.

- 2.10 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 1 view looking inboard right side, install the stencil P/N AW001DSD040EQ and the stencil P/N AW001DSP015EQ.
- 3. In accordance with AMP DM 39-A-28-11-00-00A-364A-A perform the general leakage check to test the seal of the cap.
- 4. In accordance with weight and balance changes, update the Chart A (see Rotorcraft Flight Manual, Part II, section 6).
- 5. Return the helicopter to flight configuration and record for compliance with this Service Bulletin on the helicopter logbook.
- 6. Send the attached compliance form to the following mail box:

engineering.support.lhd@leonardocompany.com

As an alternative, gain access to My Communications section on Leonardo WebPortal and compile the "Service Bulletin Application Communication".



KIT CLOSED CIRCUIT REFUELLING RECEIVER 4G2820F00111



S.B. N°139-622 DATE: December 14, 2020 REVISION: / Figure 1





Please send to the following address: LEONARDO S.p.A. CUSTOMER SUPPORT & SERVICES - ITALY		SERVICE BULLETIN COMPLIANCE FORM				Date:
		Number:				
PRODUCT SUPPORT ENGINEE	RING & LICENSES DEPT.					
21017 Cascina Costa di Samara Tel.: +39 0331 225036 Fax: +39	ate (VA) - ITALY 0331 225988	Revision:				
Customer Name and Addre	ess:			Telephone:		
				Fax:		
			B.T. Compliance Date:			
Helicopter Model	S/N	Total Number		Total Hours	T.S.O.	
Remarks:						
Information:						

We request your cooperation in filling this form, in order to keep out statistical data relevant to aircraft configuration up-to-date. The form should be filled in all its parts and sent to the above address or you can communicate the application also via Technical Bulletin Application Communication Section placed in Leonardo AW Customer Portal - MyCommunications Area. We thank you beforehand for the information given.