
SERVICE BULLETIN

N° **139-629**

DATE: November 19, 2020

REV. : A - April 20, 2021

TITLE

ATA 95 – FORWARD FLOATS COVERS UPGRADE

REVISION LOG

Forward floats cover assemblies already compliant with the first issue of this Service Bulletin do not need any additional action.

Revision A is issued in order to add RH forward float cover assy P/N 3G9560V04231 S/N 17003 to the effectivity, updating also the Annex A.

*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

LH forward float cover assy P/N 3G9560V04131 and RH forward float cover assy P/N 3G9560V04231 listed in table 1 installed on AW139 helicopters.

P/N	S/N	Description
3G9560V04131 (650.5201)	VI014020, VI014021, VI015322, VI018587, VI019165, VI019189, VI022959, VT036629, VT037532, VT037642, VT037739, VT037743, VT040809, VT042808, VT046760, VT060877, VT064991, VT075001, VT075678, VT075683, VT077540, VT078089, VT078381, VT079701, VT101223, VT101698, VT102320, VT103671, VT104854, VT107223, VT107224, VT107474, VT107892, 15012, 16002, 17001, 17002, 17003, 17006	AW139 Forward Float LH Assembly
3G9560V04231 (650.5202)	VI010708, VI014018, VI014019, VI018515, VI018917, VI019168, VT033211, VT033218, VT034089, VT034883, VT037522, VT037570, VT042836, VT046756, VT060888, VT064973, VT075062, VT075629, VT075942, VT077519, VT080256, VT081398, VT083689, VT084911, VT084913, VT086998, VT101893, VT102490, VT103729, VT104661, VT106712, VT109103, VT109179, 15002, 16002, 17001, 17002, 17003, 17004, 17005	AW139 Forward Float RH Assembly

Table 1

B. COMPLIANCE

At the first forward float overhaul after the issue date of this Service Bulletin.

C. CONCURRENT REQUIREMENTS

N.A.

D. REASON

The Service Bulletin is developed in order to provide the information about the upgrade of the forward float cover assemblies (left and right) by introducing a previously missing cutout feature on their return flanges.

E. DESCRIPTION

Upon inspection, it was discovered that some LH and RH forward covers (P/N 650.0803 and P/N 650.0804) were manufactured missing a cutout feature on their return flanges. The forward covers were designed to have the cutout to facilitate deployment from the pod during float activation.

This Service Bulletin gives the information for the manufacturing correction of the float forward covers (P/N 650.0803 and P/N 650.0804).

Revision A adds S/N 17003 of P/N 3G9560V04231 to the effectivity, updating also the Annex A with Service Bulletin SB2019-04 C.

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

Refer to Annex A, Chapter 1, Section 1.4.

H. WEIGHT AND BALANCE

N.A.

I. REFERENCES

1) PUBLICATIONS

N.A.

2) ACRONYMS

DOA	Design Organization Approval
EASA	European Aviation Safety Agency
FWD	Forward
LHD	Leonardo Helicopters Division

3) ANNEX

Annex A Service Bulletin SB2019-04 C

J. PUBLICATIONS AFFECTED

N.A.

K. SOFTWARE ACCOMPLISHMENT SUMMARY

N.A.

2. MATERIAL INFORMATION

A. REQUIRED MATERIALS

1) PARTS

N.A.

B. SPECIAL TOOLS

N.A.

C. INDUSTRY SUPPORT INFORMATION

The cost for the compliance of this Service Bulletin will be free of charge for the operator provided that the compliance is addressed at the next regularly scheduled service interval for each affected float assembly.

3. ACCOMPLISHMENT INSTRUCTIONS

1. There are no compliance instructions to be performed. The aim of this document is to inform Customer that all DART AW139 FWD Float left and right assemblies (P/N 650.5201 / 3G9560V04131 and 650.5202 / 3G9560V04231) will be upgraded during the next overhaul that will be performed after receipt of this Service Bulletin, according to the instruction reported in Service Bulletin in Annex A.

The introduction of these modifications will be performed by DART maintenance personnel or by approved service centre maintenance personnel according to Service Bulletin SB2019-04 C in annex A.

2. 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".

ANNEX A

SERVICE BULLETIN SB2019-04 C DART AW139 FWD FLOAT LEFT AND RIGHT ASSEMBLIES UPGRADE



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Service Bulletin

Document Number: SB2019-04
Date: 2020-NOV-09
Revision: C
Effective Models: AW139

Aircraft	Component S/Ns				Component P/N	Component Description			
AW139	VI014020	VT037739	VT077540	VT107224	650.5201 (3G9560V04131)	AW139 Forward Float LH Assembly			
	VI014021	VT037743	VT078089	VT107474					
	VI015322	VT040809	VT078381	VT107892					
	VI018587	VT042808	VT079701	15012					
	VI019165	VT046760	VT101223	16002					
	VI019189	VT060877	VT101698	17001					
	VI022959	VT064991	VT102320	17002					
	VT036629	VT075001	VT103671	17003					
	VT037532	VT075678	VT104854	17006					
	VT037642	VT075683	VT107223						
	AW139	VI010708	VT037522	VT080256			VT106712	650.5202 (3G9560V04231)	AW139 Forward Float RH Assembly
		VI014018	VT037570	VT081398			VT109103		
VI014019		VT042836	VT083689	VT109179					
VI018515		VT046756	VT084911	15002					
VI018917		VT060888	VT084913	16002					
VI019168		VT064973	VT086998	17001					
VT033211		VT075062	VT101893	17002					
VT033218		VT075629	VT102490	17003					
VT034089		VT075942	VT103729	17004					
VT034883		VT077519	VT104661	17005					

NOTE: This Service Bulletin is sent to the operators of record for the model aircraft as shown above.

This technical data package being provided to Leonardo Helicopters (LHD).

It includes, but is not limited to drawings, specifications and other technical data attached hereto and are the Property of Apical Industries, Inc., dba DART Aerospace (DA) and constitute trade secrets for the purpose of the Trade Secrets and Freedom of Information Act. Disclosures to any party for any reason without the permission of DA is prohibited, except that disclosures may be made with LHD's consistent with the need to evaluate DA's technical data.




SUBJECT:
SERVICE BULLETIN

REFERENCE DRAWING:
650.5200

DOCUMENT No:
SB2019-04
Rev. C
2020-NOV-09

LOG OF REVISIONS

Rev	Date	Pages	Description	Approval
N/C-B			See previous revisions	
C	2020-NOV-09	1	Added S/N 17003 to P/N 650.5202 S/Ns	J. Gardiner 



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650.5200

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SAFETY SUMMARY

GENERAL PRECAUTIONS

- Personal Protective Equipment (PPE) shall be worn when exposed to flying particles, liquid chemicals, or other potential hazards to the skin, eyes, ears, or respiratory system.
- Ensure that the work area is free from dirt, foreign matter, and contaminants that could otherwise damage functionality.
- Failure to comply with or deviate from the procedure may negatively affect the equipment. It is the operator's responsibility to comply with these procedures.

DEFINITIONS

The following precaution definitions are used to indicate the seriousness of the hazard or conditions. All of the following may refer to a maintenance procedure, practice, condition, etc.

WARNING: THIS INDICATES INFORMATION THAT, IF NOT FOLLOWED, COULD RESULT IN PERSONAL INJURY, DEATH, OR LONG-TERM HEALTH CONDITIONS.

CAUTION: THIS INDICATES INFORMATION THAT, IF NOT FOLLOWED, MAY RESULT IN DAMAGE TO OR DESTRUCTION OF EQUIPMENT, OR THE LOSS OF MISSION EFFECTIVENESS.

NOTE: This indicates information that aids in understanding or provides additional detail on the methods of a procedure.



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1.0 INTRODUCTION

1.1 SUBJECT

The DART AW139 FWD Float left and right assemblies (P/N 650.5201 / 3G9560V04131 and 650.5202 / 3G9560V04231) may contain forward covers (P/N 650.0803 and 650.0804) that were manufactured missing a cutout feature on their return flanges.

1.2 BACKGROUND

Upon inspection, it was discovered that some LH and RH forward covers (P/N 650.0803 and 650.0804) were manufactured missing a cutout feature on their return flanges. The forward covers were designed to have the cutout to facilitate deployment from the pod during an emergency float activation.

1.3 ACTION

This SB provides instructions for operators who have received a DART AW139 FWD float assembly with an affected cover to remove the affected FWD float assemblies and return them to DART (or an approved service center) for modification. This SB also provides instructions for DART (or an approved service center) to correct the manufacturing non-conformance in the affected forward covers (P/N 650.0803 and 650.0804). The modification brings the installation into compliance with revision A (or later revisions) of drawing number 650.0800.

1.4 MANPOWER

Maintenance-man-hours are based on hands-on time and can change per facility and based upon the availability of qualified personnel. An estimate of two man-hours are required to accomplish this service bulletin.

1.5 WEIGHT AND BALANCE

Incorporating this SB has no appreciable effect on the A/C weight and balance.

1.6 PUBLICATIONS AFFECTED

No publications are affected.

1.7 APPROVAL

The modifications described in the Accomplishment Instructions have been shown to comply with applicable regulations.



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2.0 ACCOMPLISHMENT INSTRUCTIONS - OPERATORS

2.1 INSPECT THE FORWARD POD COVERS (LH AND RH) TO SEE IF THE CUTOUT IS MISSING

NOTE: Reference LHD Service Bulletin SB139-629 while performing the actions in this section.

1. Inspect the cover from underside of the aircraft looking outboard at the FWD Pod Assembly in the indicated area in Figure 1.

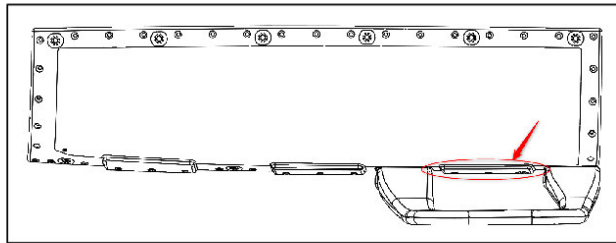


Figure 1: LH Pod Assembly Cover Cutout Location (RH Opposite)

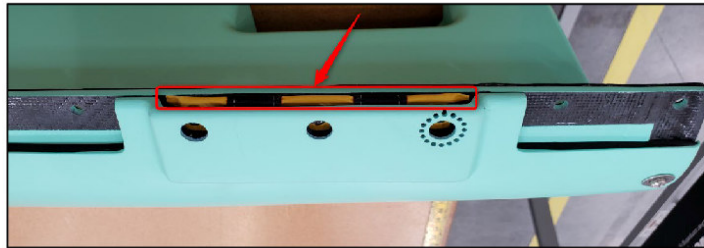


Figure 2: RH Cover with Cutout (LH Opposite)

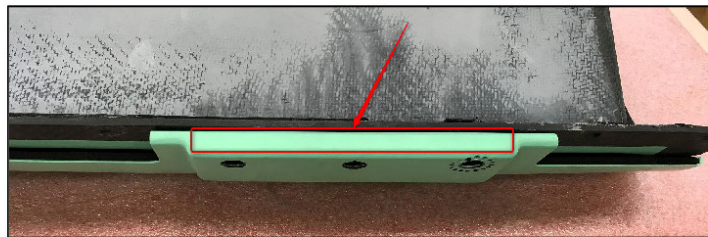


Figure 3: RH Cover Missing Cutout (LH Opposite)

2. If the cover looks like Figure 2, with the correct cutout, no further action is required.



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3. If the cover looks like Figure 3, missing the indicated cutout, proceed to Section 2.2.

2.2 REMOVE THE FORWARD PODS FROM THE HELICOPTER

NOTE: Reference LHD Service Bulletin SB139-629 while performing the actions in this section.

At the next scheduled service interval, remove the affected forward pod assemblies and return them to DART (or an approved service center) for rework.

2.3 GENERAL

Report aircraft Registration Numbers and component serial numbers to DART Aerospace Customer Support via email: support@dartaero.com.

3.0 ACCOMPLISHMENT INSTRUCTIONS – SERVICE CENTERS

3.1 REMOVE COVER FROM POD ASSEMBLY

1. Remove the cover from the forward pod assembly by unscrewing the eight screws (P/N 601.2279) on the front of the cover as indicated in Figure 4.

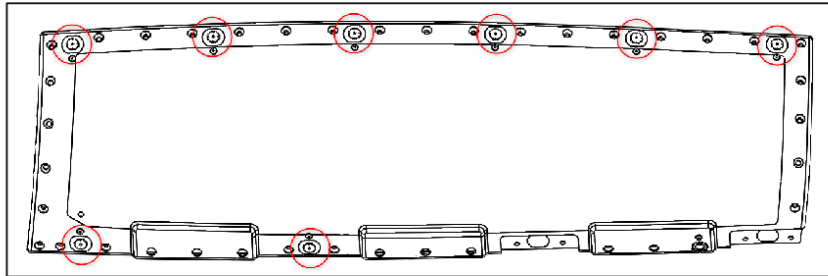


Figure 4: Screw Locations on Pod Assembly Cover (LH shown, RH opposite)

3.2 ADD A CUTOUT TO THE COVER AND INSPECT

1. On the cover, identify the location where the cutout needs to be added (Figure 5).

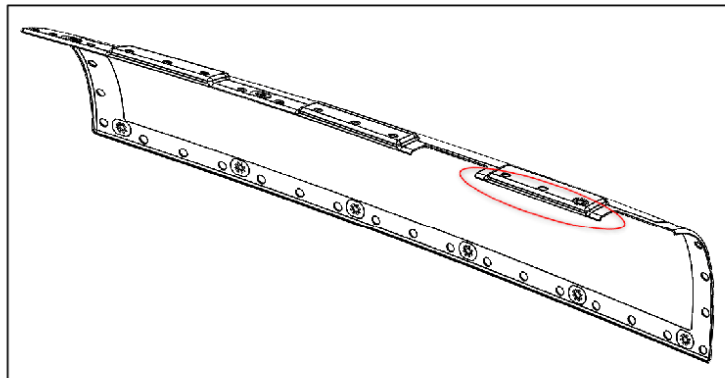


Figure 5: Cutout Location (LH shown, RH opposite)

2. Place the provided marking template (P/N 607.2710) on the edge of the cover's flange as shown in Figure 7 and Figure 8.

Use the same template (see Figure 6) for the LH and RH covers.



Figure 6: Marking Template (P/N 607.2710)

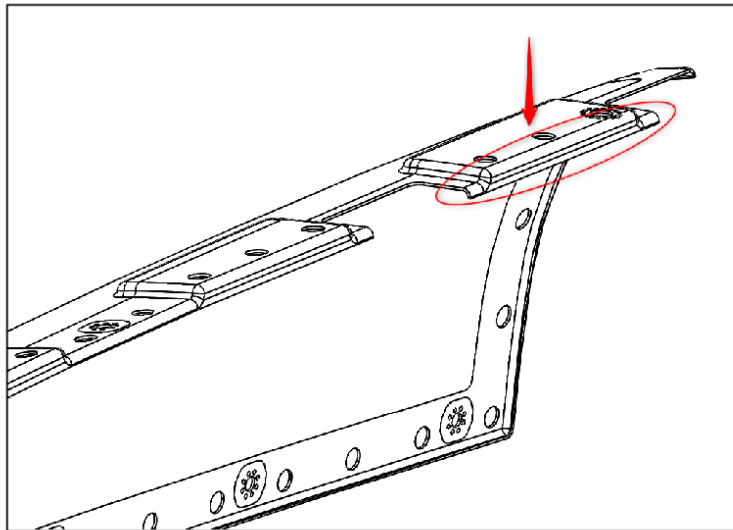


Figure 7: Marking Template Placement on Cover's Edge (LH shown, RH opposite)



Figure 8: Marking Template on the Edge of the Cover

3. Mark the cover with a pencil or marker as shown in Figure 9.

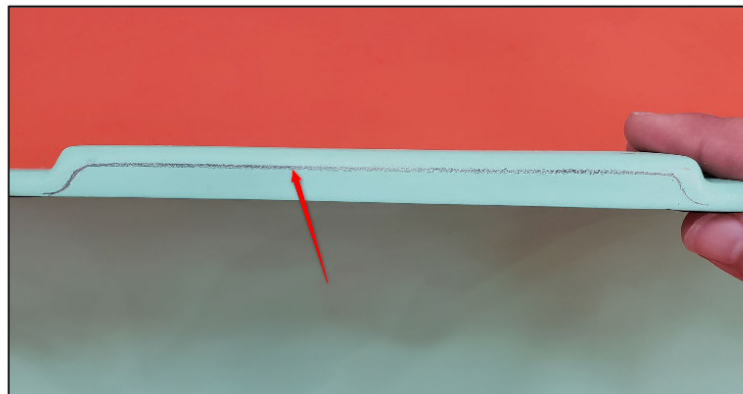


Figure 9: Marked Cover

4. Use a Dremel or rotary file on high speed to cut the cover up to the marking, as shown in Figure 10.
5. Use a file to deburr. Use preferred MIL spec primer to coat any exposed surfaces.

WARNING: SAFETY GLASSES AND A DUST MASK MUST BE WORN. TAKE CARE NOT TO RUN FINGERS ALONG THE EDGE OF THE COVER TO PREVENT CUTTING OF THE FINGERS.



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CAUTION: PERFORM THE CUTTING OF THE COVER AWAY FROM WHERE THE POD ASSEMBLY AND FLOATS ARE STORED. CLEAN THE REPAIR AREA OF COMPOSITE DUST WHEN FINISHED WITH THE OPERATION.



Figure 10: Final Cutout on Cover (LH shown, RH opposite)

6. Inspect the cutout using the marking template and reference dimensions given in Figure 11.

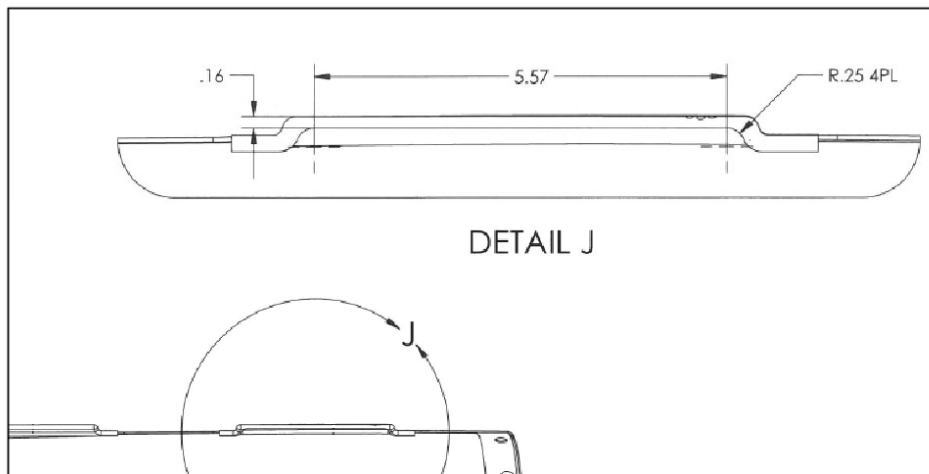


Figure 11: Reference Dimensions (LH shown, RH opposite)



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3.3 REINSTALL COVER ONTO POD ASSEMBLY

1. Reinstall the cover onto the forward pod assembly in accordance with 25-60-00 AW139 CMM, FWD Inflatable Packing Procedure (I-Level), starting from Step 16.

If the cover cannot be installed, repack the float in accordance with 25-60-00 AW139 CMM, FWD Inflatable Packing Procedure (I-Level).

3.4 GENERAL

Report the aircraft Registration Numbers and component serial numbers to DART Aerospace Customer Support via email (support@dartaero.com).

Customer	Aircraft Model	Aircraft S/N	Aircraft R/N	Component P/N	Component S/N

Please send to the following address: LEONARDO S.p.A. CUSTOMER SUPPORT & SERVICES - ITALY PRODUCT SUPPORT ENGINEERING & LICENSES DEPT. Via Giovanni Agusta, 520 21017 Cascina Costa di Samarate (VA) - ITALY Tel.: +39 0331 225036 Fax: +39 0331 225988		SERVICE BULLETIN COMPLIANCE FORM		Date:	
		Number:			
		Revision:			
Customer Name and Address:			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.					