
SERVICE BULLETIN

N° 139-641

DATE: October 7, 2021

REV. : /

TITLE

ATA 25 - COLLECTIVE EMERGENCY LIFE-RAFT NEW HANDLE COVER

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

All Double Head Light Fairing assy P/N 202688A and P/N 202689A belonging to kit emergency floats and life rafts P/N 3G9560F00111 installed on AW139 helicopters or kept in stock.

B. COMPLIANCE

At Customer's option.

C. CONCURRENT REQUIREMENTS

N.A.

D. REASON

This Service Bulletin is issued in order to provide the instruction for installation of a new Handle Cover on Double Head Light Fairing Assy.

E. DESCRIPTION

The Handle Cover, installed on the Double Head Light Fairing Assy P/N 202688A and P/N 202689A, permits access by hand to the release mechanism that deploys the life raft. A new Handle Cover has been introduced to improve the wear endurance.

The new Handle Cover P/N 307463B, completely interchangeable with the existing one P/N 307463A, has an additional closure flap that enhances the tightness of velcro fasteners without affecting the pull force needed to get access to the release mechanism.

This Service Bulletin is issued to provide instruction for the replacement of existing Handle Cover with the new one P/N 307463B.

This activity may be performed by operators or by the authorized service stations.

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 four (4) MMH are deemed necessary.

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

H. WEIGHT AND BALANCE

N.A.

I. REFERENCES

1) PUBLICATIONS

<u>DATA MODULE</u>	<u>DESCRIPTION</u>	<u>PART</u>
DM01 39-A-00-20-00-00A-120A-A	Helicopter on ground for a safe maintenance	-
DM02 39-A-25-62-01-00A-520A-K	Left front fairing- Remove procedure	-
DM03 39-A-25-62-02-00A-520A-K	Right front fairing- Remove procedure	-
DM04 39-A-25-62-01-00A-720A-K	Left front fairing- Install procedure	-
DM05 39-A-25-62-02-00A-720A-K	Right front fairing- Install procedure	-

2) ACRONYMS

AMDI	Aircraft Material Data Information
AMP	Aircraft Maintenance Manual
DOA	Design Organization Approval
EASA	European Aviation Safety Agency
ITEP	Illustrated Tools and Equipment Publication
IPD	Illustrated Part Data
LHD	Leonardo Helicopters Division

3) ANNEX

Annex A	Aereo Sekur Service Bulletin SB-139-25-004
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J. PUBLICATIONS AFFECTED

AW139 AMP

AW139 IPD

K. SOFTWARE ACCOMPLISHMENT SUMMARY

N.A.

2. MATERIAL INFORMATION

A. REQUIRED MATERIALS

1) PARTS

Refer to chapter 2 "Material Information" of Aereo Sekur Service Bulletin SB-139-25-004.

2) CONSUMABLES

Refer to chapter 2 "Material Information" of Aereo Sekur Service Bulletin SB-139-25-004.

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

3) LOGISTIC MATRIX

N.A.

B. SPECIAL TOOLS

Refer to chapter 2 "Material Information" of Aereo Sekur Service Bulletin SB-139-25-004.

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

C. INDUSTRY SUPPORT INFORMATION

Product Improvement.

3. ACCOMPLISHMENT INSTRUCTIONS

NOTE

Steps from 1 to 3 are not applicable for components kept in stock.

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. In accordance with AMP DM 39-A-25-62-01-00A-520A-K remove the Double Head Light Fairing assy P/N 202689A
3. In accordance with AMP DM 39-A-25-62-02-00A-520A-K remove the Double Head Light Fairing assy P/N 202688A.
4. Rework and remark the life raft fairing assy as described in the chapter 3 of the Aero Secur Service Bulletin SB-139-25-004.
5. Record for compliance with this Service Bulletin on the component Log Card.

NOTE

Steps from 6 to 8 are not applicable for components kept in stock.

6. In accordance with AMP DM 39-A-25-62-01-00A-720A-K install the Double Head Light Fairing assy P/N 202689B.
7. In accordance with AMP DM 39-A-25-62-02-00A-720A-K install the Double Head Light Fairing assy P/N 202688B
8. Return the helicopter to flight configuration and record for compliance with this Service Bulletin on the helicopter logbook.
9. 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

AEREO SEKUR SB-139-25-004

1. PLANNING INFORMATION**A. TITLE**

Equipment Furnishings – AW139 Collective Emergency Life-raft New Handle Cover.

B. EFFECTIVITY

This Service bulletin applies to all Aero Sekur AW139 Collective Emergency Life-rafts equipped with Double Head Light Fairing Assy P/N 202688A and P/N 202689A.

C. REASON

This Service Bulletin is issued to provide instruction for installation of a new Handle Cover on Double Head Light Fairing Assy.

D. DESCRIPTION

The Handle Cover, installed on the Double Head Light Fairing Assy P/N 202688A and P/N 202689A, permits access by hand to the release mechanism that deploys the life raft. A new Handle Cover has been introduced to improve the wear endurance.

The new Handle Cover P/N 307463B, completely interchangeable with the existing one P/N 307463A, has an additional closure flap that enhance the tightness of velcro fasteners without affecting the pull force needed to get access to the release mechanism.

This Service Bulletin is issued to provide instruction for the replacement of existing Handle Cover with the new one P/N 307463B.

This activity may be performed by operators or by the authorized service stations.

E. COMPLIANCE:

OPTIONAL. This Service Bulletin may be accomplished at Customer/Owner's option.

A Service Bulletin published by Aero Sekur Company may be recorded as "completed" in the appropriate Log Card only when the following general requirements are satisfied:

1. A mechanic must complete all the instructions in the Service Bulletin, including the intent therein.
2. The mechanic must correctly use and install all applicable parts supplied with the Service Bulletin kit.
3. The mechanic must apply the information in the Service Bulletin only to items part number, serial number identified in the "Effectivity" section of the Bulletin.
4. The mechanic must use maintenance practices that are identified as acceptable standard practices in the aviation industry and governmental regulations.

Aero Sekur Company is not responsible for the quality of maintenance performed to comply with this document unless the maintenance is accomplished by Aero Sekur or Aero Sekur MRO Approved facility.

F. APPROVAL:

The content of this document is approved by Leonardo S.p.A. Helicopters (formerly Finmeccanica S.p.A., AgustaWestland S.p.A.), Design Authority of the AW139 Collective Emergency Life-raft.

Original Issue – 10 July 2020

SB-139-25-004

Revision No.

Page 1 of 6

AERO SEKUR SpA, Customer Support, via delle Valli, 04011, Aprilia (LT), ITALY, +39.06.97634000, Fax +39.06.9282849
Email: publications@sekur.aero

G. MANPOWER:

Estimated Labor-Hours to comply with this Service Bulletin:

- Two hours approx. for each fairing.

NOTE: This estimate is based on hands-on time and may vary with personnel and facilities available.

NOTE: These labor-hours only concern the work described in this Service Bulletin and do not include other maintenance work which may be performed on this occasion.

H. WEIGHT AND BALANCE:

N/A.

J. REFERENCES:

N/A.

K. PUBLICATION AFFECTED:

Aero Sekur Component Maintenance Manual (CMM) 95-61-04, Rev. 9, Dated 22 August 2019.

2. MATERIAL INFORMATION
A. MATERIAL

Table below lists materials required for compliance with this Service Bulletin.

PART NAME	PART NUMBER	SOURCE	USE
Handle Cover	307463B	Aero Sekur	To replace the existing Handle Cover.
Methyl Ethyl Ketone (MEK), ASTM D740	-	Local Supply	Solvent.
Polyurethane Adhesive	A-A10017 *	Aero Sekur	For bonding operations
80 to 100 grit abrasive paper	-	Local Supply	Hand sanding of fairing
Permanent Marker	-	Local Supply	For SB compliance markings

(*) Polyurethane adhesive P/N A-A10017 is supplied by Aero Sekur with the following kit:

- Float Repair kit P/N 307273A (includes 1 Litre of adhesive)
- Float Repair Kit P/N 310647A (includes 5 Litres of adhesive)

B. TOOLING

Table below lists tools required for compliance with this Service Bulletin.

PART NAME	PART NUMBER	SOURCE	USE
Heat-gun	-	Local Supply	For bonding/debonding

Original Issue – 10 July 2020

SB-139-25-004

Revision No.

Page 2 of 6

AERO SEKUR SpA, Customer Support, via delle Valli, 04011, Aprilia (LT), ITALY, +39.06.97634000, Fax +39.06.9282849
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PART NAME	PART NUMBER	SOURCE	USE
Pusher Blade, (metal tongue depressor)	-	Local Supply	operations For bonding/debonding operations
Lint-free cloth	-	Local Supply	For cleaning operations
Brush, suitable size		Local Supply	For bonding operations
Spatula	202314A	Aero Sekur	For bonding operations
Hand-roller	309845A	Aero Sekur	For bonding operations

C. INDUSTRY SUPPORT INFORMATION

N/A.

3. ACCOMPLISHMENT INFORMATION

WARNING: BEFORE USING SOLVENTS, ADHESIVES, OR OTHER CHEMICAL BASED PRODUCTS, REFER TO THE APPLICABLE MATERIAL SAFETY DATA SHEET (MSDS) FOR SPECIFIC GUIDELINES ON PROPER PERSONAL PROTECTIVE EQUIPMENT, STORAGE, HANDLING, AND VENTILATION REQUIREMENTS.

CAUTION: ALL PARTS MUST BE HANDLED WITH CARE DURING ALL WORKING PHASES. ANY OCCURRENCE WHICH MAY POTENTIALLY IMPACT THE EQUIPMENT INTEGRITY MUST BE REPORTED TO THE MAINTENANCE STAFF.

CAUTION: DISASSEMBLING OF THE SUB-PARTS SHOULD BE LIMITED TO THOSE PARTS THAT NEED TO BE DISCARDED OR REPLACED.

NOTE: Instructions below (paragraphs 3.A and 3.B) are the same for both side of installation (Left-hand and Right-hand).

NOTE: 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 re-use.

A. Replacement of Handle Cover.

- (1) Remove and discard the defective Handle Cover.
 - (a) Use a heat gun to warm (125°C maximum) the bonded surface of the handle cover.

NOTE: It may be necessary to work pusher blade soaked with MEK solvent under edge of Handle Cover attachment to loosen edges.
- (2) Prepare the bonding area of Fairing and new Handle Cover P/N 307463B, ref to figure 1.
 - (a) Rub the bonding area of Fairing and Handle Cover, with a lint free cloth soaked by MEK solvent and allow to evaporate in air, for at least 30 minutes.

CAUTION: CARE MUST BE TAKEN, NOT TO DAMAGE THE FIBERS IN THE FAIRING'S LAMINATE.

Original Issue – 10 July 2020

SB-139-25-004

Revision No.

Page 3 of 6

AERO SEKUR SpA, Customer Support, via delle Valli, 04011, Aprilia (LT), ITALY, +39.06.97634000, Fax +39.06.9282849
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- (b) Sand with 80 to 100 grit abrasive paper the bonding area of the Fairing.
- (c) Remove residual traces of abrasive, by wiping with a dry clean cloth and then wipe with a cloth moistened with MEK solvent. Cleaned surfaces shall be allowed to air dry for at least 30 minutes before bonding.

NOTE: The surfaces shall not be flooded with MEK solvent.

CAUTION: APPLY ADHESIVE ACCURATELY TO THE BOND AREA. USE A BRUSH SIZE THAT SUITS THE BOND AREA.

- (3) Apply three coats of polyurethane adhesive to each of the mating surfaces (Fairing and Handle cover), see figure 1.

NOTE: Between each coat, wait approx. 15 minutes or anyway until adhesion at finger touch is minimum or none.

- (4) Place the new handle Cover P/N 307463B to the fairing and joint gradually, ref. to figure 2. Fold back the four textile winglets of the Handle Cover to bond them to the internal side of the fairing, ref. to figure 3.

- (a) Working from the internal side of the fairing, heat-activate the adhesive by means of heat gun; direct the flow from a hot air gun over bonded surfaces. Avoid applying too much heat which may melt the coating or surrounding materials. When the adhesive feels tacky, proceed to the next step immediately.

- (b) Apply pressure on the bonded surfaces by means of spatula; eliminate all air bubbles and wrinkles.

NOTE: Apply also pressure to the bonded surfaces on the external side of the fairing. In this case the use of a Hand-roller is recommended.

- (5) Let adhesive to cure for at least 24 Hours prior to try opening the Handle Cover.
- (6) Modify the part number of Double Head Light Fairing (Part is identified internally, ref. to figure 3). Use a permanent marker (ref. to paragraph 2.A) to cross the current part number 202811A (for right instl) or 202812A (for left instl) and add new part number 202811B (for right instl) or 202812B (for left instl).
 - (a) If present, change also the part number of Double Head Light Fairing Assy. Use a permanent marker (ref. to paragraph 2.A) to cross the current part number 202688A (for right instl) or 202689A (for left instl); then, add new part number 202688B (for right instl) or 202689B (for left instl).

B. RECORD INSTRUCTION

- (1) Record compliance with this Service Bulletin in the component Log Card.
- (2) Record compliance with this Service Bulletin to the internal side of the Double Head Light Fairing Assy P/N 202688A or P/N 202689A (ref. to Figure 3). Use a permanent marker (ref. to paragraph 2.A) to mark the bulletin reference number (SB-139-25-004) close to the identification data modified as per step (6) of paragraph 3.A.

Original Issue – 10 July 2020

SB-139-25-004

Revision No.

Page 4 of 6

AERO SEKUR SpA, Customer Support, via delle Valli, 04011, Aprilia (LT), ITALY, +39.06.97634000, Fax +39.06.9282849
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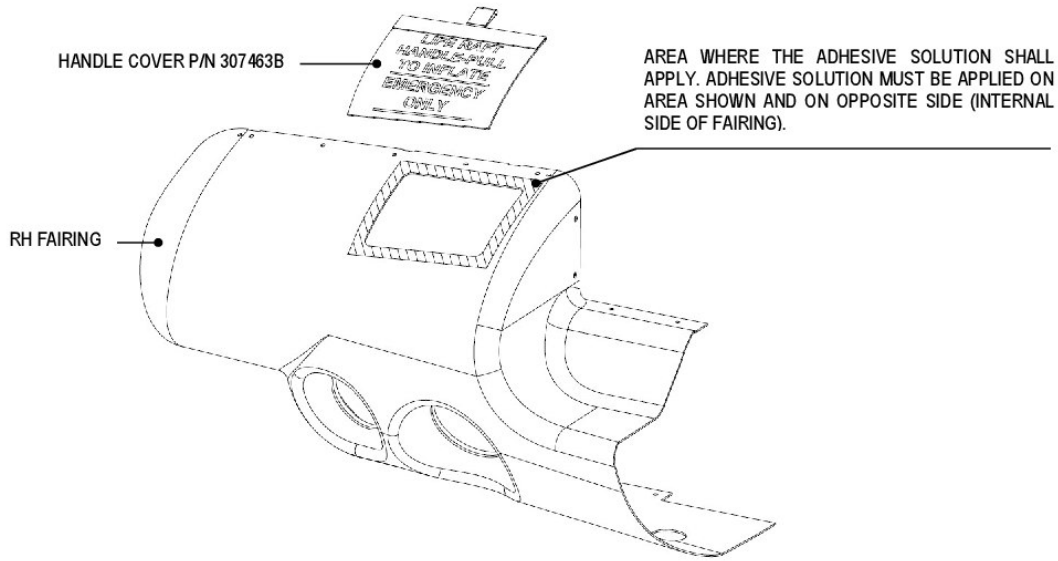


Figure 1 – Area to be bonded

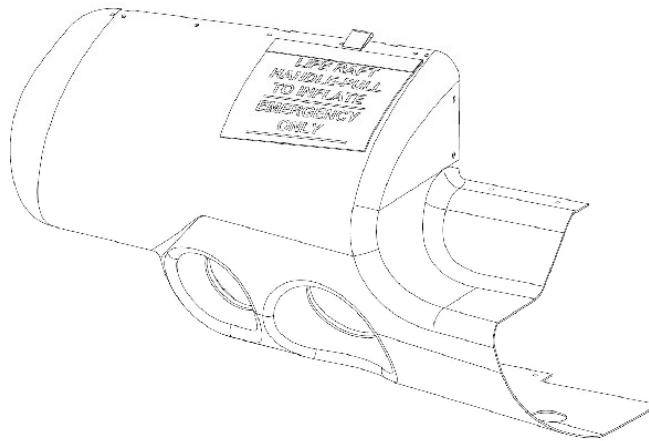


Figure 2 – New Handle Cover applied on fairing

Original Issue – 10 July 2020

SB-139-25-004

Revision No.

Page 5 of 6

AERO SEKUR SpA, Customer Support, via delle Valli, 04011, Aprilia (LT), ITALY, +39.06.97634000, Fax +39.06.9282849
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TEXTILE WINGLETS (PART OF HANDLE COVER)
TO BE BONDED INTERNALLY.

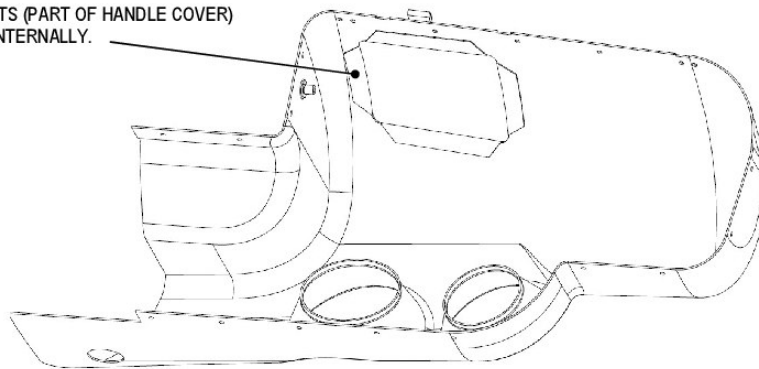


Figure 3 – New Handle Cover applied on fairing (internal side view)

Original Issue – 10 July 2020

SB-139-25-004

Revision No.

Page 6 of 6

AERO SEKUR SpA, Customer Support, via delle Valli, 04011, Aprilia (LT), ITALY, +39.06.97634000, Fax +39.06.9282849
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