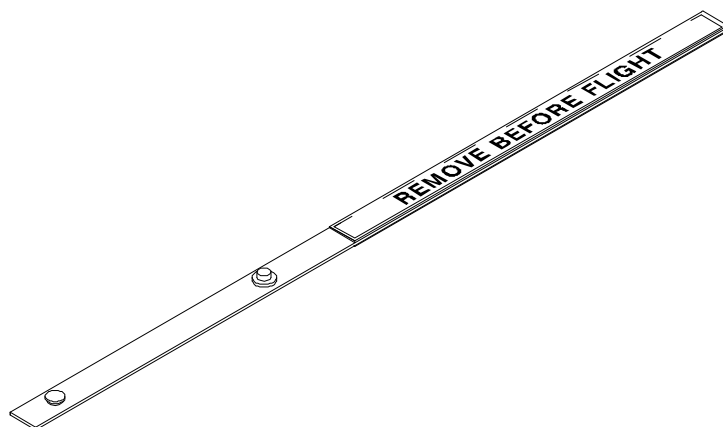


GSE & TOOL MANUAL

TITLE	STRAP ASSY, CABLE CLAMPING P/N 109-3000-02-103
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**THIS MANUAL IS ALSO VALID FOR STRAP ASSY, CABLE CLAMPING
P/N 109-3000-02-101 (WRITTEN IN ITALIAN LANGUAGE)**

**IL PRESENTE MANUALE È VALIDO ANCHE PER STRAP ASSY, CABLE CLAMPING
P/N 109-3000-02-10 101 CHE RIPORTA IL WARNING “RIMUOVERE PRIMA DEL
VOLO” IN LUOGO DI “REMOVE BEFORE FLIGHT”**

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REVISION HISTORY

REV	CHANGE DESCRIPTION	DATE
A	First issue	01/12/2021



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1. SCOPE

1.1. APPLICABILITY

The contents of this document are meant to provide information on the P/N 109-3000-02-103 STRAP ASSY, CABLE CLAMPING.

1.2. OBJECT

The object of this document is to describe the AGE and its components, its main features and it will also provide all needed maintenance requirements to keep in service the P/N 109-3000-02-103 STRAP ASSY, CABLE CLAMPING.

1.3. WARNING AND SAFETY INSTRUCTIONS

A number of symbols are used throughout this document to indicate information to which the user should pay attention to. These are indicated below along with the specific meaning.




 Warning	...Indicates a danger that might arise from a product and might result in severe injuries or even death, if no precautions are taken.
 Caution	... Indicates a potentially dangerous situation, which might result injury or damage to the equipment.
 Notice	...Indicates a note providing information to help the reader during the procedure.

Table 1 – Warning Instruction

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2. DOCUMENTS

2.1. APPLICABLE DOCUMENTS

The following table lists the applicable documents

REF	REFERENCE OF DOCUMENT	TITLE
N.A.	N.A.	N.A.

Table 2 – Applicable Documents

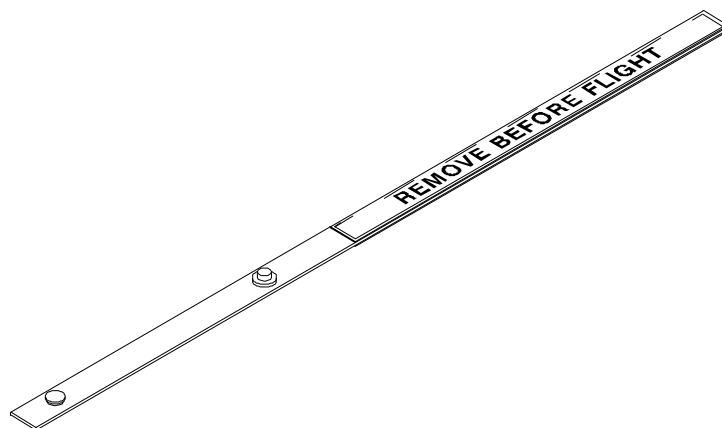
2.2. ACRONYMS USED

The main acronyms used in this document are listed below:

LHD	Leonardo Helicopter Division
HC	Helicopter
P/N	Part Number
S/N	Serial Number
N.A.	Not Applicable

3. DESCRIPTION

Strap assy to remove before flight.



109-3000-02-103_1

Figure 1 – Strap assy, cable clamping

4. TOP ASSEMBLY DRAWINGS

Refer to P/N 109-3000-02-103 STRAP ASSY, CABLE CLAMPING.

5. IDENTIFICATION

The tool identification P/N is marked on the flag

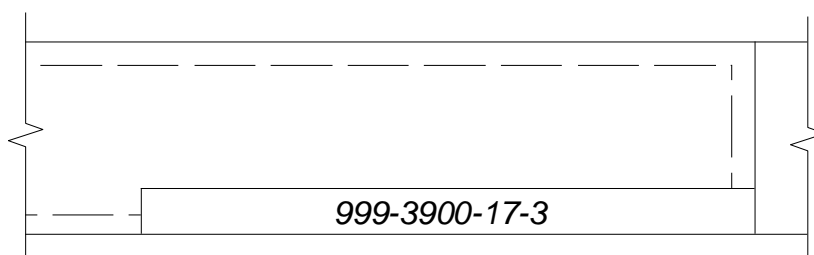


Figure 2 – P/N marking area



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6. OVERALL DIMENSIONS

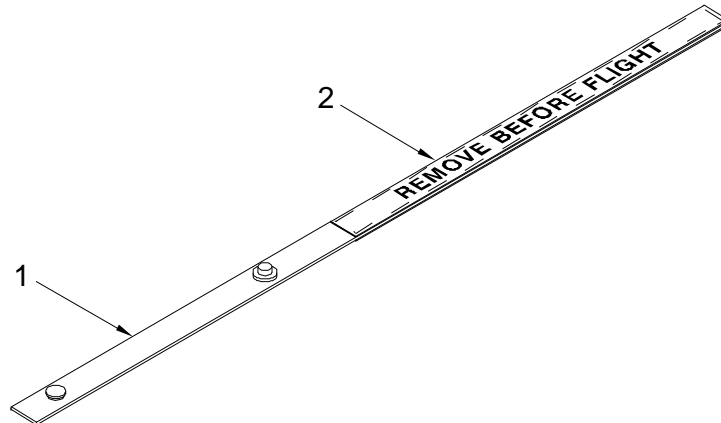
Wrapped up:

- Length: 40 mm
- Width: 20 mm
- Height: 20 mm

7. WEIGHT

- Total Weight: 10 gr

8. MAIN PARTS



109-3000-02-103_2

Figure 3 – Main Parts

The main parts of the STRAP ASSY, CABLE CLAMPING are:

1. Strap
2. Streamer

9. MAIN FEATURES DESCRIPTION

The tool is composed of a strap with an eyelet and a streamer where there is the warning “REMOVE BEFORE FLIGHT”, written on both sides of the flag. At the end of the flag there is a marking, written on both sides.

10. WARNING AND SAFETY NOTES

10.1. WARNING NOTE







 Warning	<p>Use this equipment only for the purpose that it is designed for. Any other use can result in injury or serious material damage to the components.</p>
 Caution	
 Notice	<p>The Manual can never integrally replace the adequate competence of the user.</p>
 Warning	<p>Before and after each use of the equipment is necessary to perform the checks required. Do not operate with a tool damaged or partially completed, or partially assembled.</p>
 Caution	
 Notice	<p>This Manual provides guidelines and instructions of the equipment that are in addition to - but are not intended to replace or modify but only to integrate - any general or specific rule, regulation, decree or law that is in force in the place where the equipment is in use.</p>

Table 3 – Warning Note

10.2. SAFETY NOTES

Remember to wear protective overalls, safety shoes, protective gloves and glasses during all operational and maintenance phases.



Figure 4 – Safety Notes

11. STORAGE

The Tool shall be properly stored to provide protection from external weather conditions, damage and dirty particles.

Ensure that the tool parts are clean before storage.

11.1. LUBRICATION BEFORE STORAGE

N.A.

11.2. STORAGE CONFIGURATION

The tool has no particular storage configuration.

12. MAINTENANCE

NOTE: For the strap assy, the maintenance is not necessary.

NOTE: Inspection intervals for the parts placed inside in ready storage is 12 months.

12.1. CLEANING

N.A.

12.1.1. SPECIAL TOOLS, FIXTURE AND EQUIPMENT

No special tools, fixture and equipment are required for cleaning.

12.1.2. PART REQUIREMENTS

N.A.

12.1.3. MANUAL CLEANING

- A. Clean the flag from sand or dust with a cotton cloth absolutely not wet.
- B. In the event of stain of oil and/or grease has to be used a cloth with neutral cleaner.
- C. Do not use solvents and/or cleaning products containing alcohol because it could damage the writing.

12.2. CHECKS

Before and after each use or at least every year, carry out the check of kit component.

Before each use ensure that the manual is available to the operator, in the event of loss, request a copy to Leonardo Helicopters Division.

The Tool kit shall be submitted to following checks to guarantee the functionality.

All required checks shall be registered on CHECK RECORDS Table. Ref. *TLC_Table 1*

After each use of tool ensure to have registered the number of uses on HISTORICAL USES RECORD Table. Ref. *TLC_Table 2*

The Tool Log Card template contained in the Annex A of this manual can be replaced with any other log card template in use in the plant where the equipment is in use.

12.2.1. SPECIAL TOOLS, FIXTURE AND EQUIPMENT

No special tools, fixture and equipment are required for the checks.

12.2.2. VISUAL EXAMINATION

NOTE: Replace the parts that do not obey the inspection requirements.

Restore the marking of the parts that results damaged or not readable.

All required visual checks are listed on Table 4

PERIODICITY	CHECK TYPE	COMPONENTS	
BEFORE AND AFTER EVERY USE	VISUAL EXAMINATION	Evidence of impact;	All
	Crushing or stripping	All	
	Cracks	N.A.	
	Dents	N.A.	
	Wear	All	
	Distortions	All	
	Corrosion	N.A.	
	Loose or defective attaching parts (warning flag)	All	
	Unsticking of parts	N.A.	
	Damage to the threads	N.A.	
	Marking	All	
	Damage to the pins and to the shell	N.A.	
	Damage to the insulation sleeves and wires	N.A.	

Table 4 – Visual Check



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12.2.3. PERIODICAL CHECKS

Not Applicable.

12.2.4. DIMENSIONAL CHECKS

Not Applicable.

12.2.5. SPECIAL CHECKS SUMMARY

Not Applicable.

12.3. REPLACEMENT

All the parts for which it is allowed the components replacement are listed in Paragraph 15.

12.3.1. REPLACEMENT PROCEDURES

The replacement of parts of the kit does not require specific procedures.

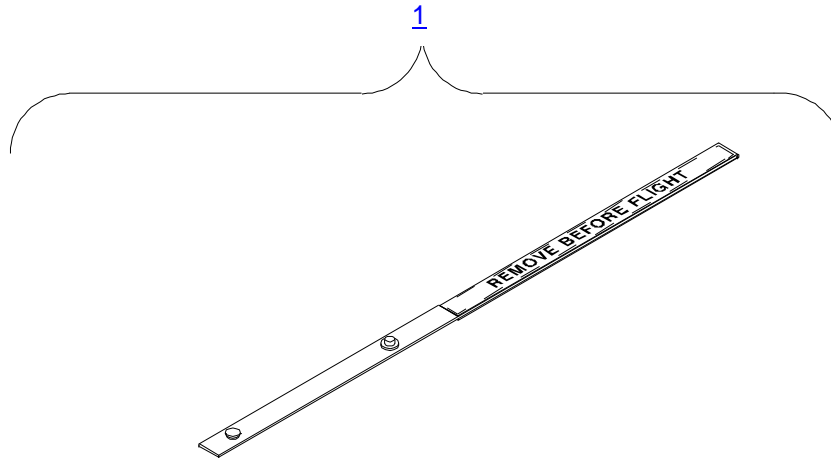
13. CALIBRATION

No Calibration is required.

14. SHELF LIFE

Not Applicable.

15. SPARE PARTS



109-3000-02-103_3

Figure 5 – Spare Parts

ITEM	P/N	DESCRIPTION	Q.TY
1	109-3000-02-103	STRAP ASSY, CABLE CLAMPING	REF
	OR		
	109-3000-02-101		

Table 5 – Spare Parts

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16. CE MARKING

No CE marking is required for the P/N 109-3000-02-103 STRAP ASSY, CABLE CLAMPING.



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ANNEX A

TOOL LOG CARD



TOOL LOG CARD

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TOOL KIT P/N: [1]	TOOL KIT DESCRIPTION: [2]	TOOL KIT S/N: [3]
TOOL P/N: [4]	TOOL S/N: [5]	REMARKS: [6]

Section 1: CHECKS RECORD

[7] N° check	[8] DATE	[9] P/N TO CHECK	[10] CHECK	[11] FREQUENCY	[12] RESULT	[13] NOTE	CERTIFICATION [14]
							STAMP & SIGNATURE [15]
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
FINAL ACCEPTANCE [16]							
STAMP & SIGNATURE [17]						DATE [18]	

TLC_Table 1



TOOL LOG CARD

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TOOL KIT P/N: [1]	TOOL KIT DESCRIPTION: [2]	TOOL KIT S/N: [3]
TOOL P/N: [4]	TOOL S/N: [5]	REMARKS: [6]

Section 2: HISTORICAL USES RECORD

[19] N°USE	[8] DATE	[6] NOTE	[13] CERTIFICATION	[19] N°USE	[8] DATE	[6] NOTE	[13] CERTIFICATION
			[14] STAMP & SIGNATURE				[14] STAMP & SIGNATURE
1				11			
2				12			
3				13			
4				14			
5				15			
6				16			
7				17			
8				18			
9				19			
10				20			

TLC_Table 2

LOG CARD FILLING INSTRUCTIONS

FIELD #	HEADER	NOTE
1	Part number of the tool Kit	
2	Tool Kit denomination	
3	Serial Number of the tool Kit	
4	Part Number of the tool (part of kit)	
5	Serial Number of the tool (if applicable)	
6	Indicate any details of the use	
7	Sequential number of check performed	
8	Date of the activity	
9	PN of tool or component (part of tool) checked/affected by issue	
10	Typology or description of checks /issue	
11	Check frequency	
12	Check result	
13	Check remarks	
14	Performance certification	
15	Stamp and signature of the personnel which performs the check	
16	Section related to the final approval	
17	Stamp and signature of the personnel which performs the final approval	
18	Date on which the final check was made	
19	Sequential number of performed used of the tool	