

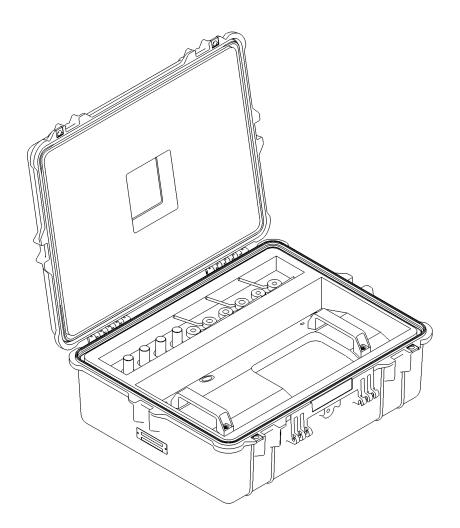
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GSE & TOOL MANUAL

TITLE

TOOL KIT, HOIST ATTACHMENT HOLES REPAIR P/N 3G5330G02031





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REVISION HISTORY

REV	CHANGE DESCRIPTION	DATE
А	First issue	16/09/2021



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1. SCOPE

1.1. APPLICABILITY

The contents of this document are meant to provide information on the P/N 3G5330G02031 TOOL KIT, HOIST ATTACHMENT HOLES REPAIR.

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 3G5330G02031 TOOL KIT, HOIST ATTACHMENT HOLES REPAIR.

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



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3. DESCRIPTION

This tool is used to perform repair of hoist attachment holes.

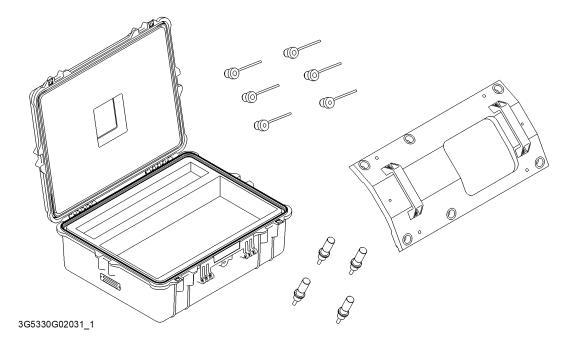


Figure 1 – Tool Kit, Hoist Attachment Holes Repair

4. TOP ASSEMBLY DRAWINGS

Refer to P/N 3G5330G02031 TOOL KIT, HOIST ATTACHMENT HOLES REPAIR.

5. IDENTIFICATION

The tool identification P/N is marked on the LHD identification tag.

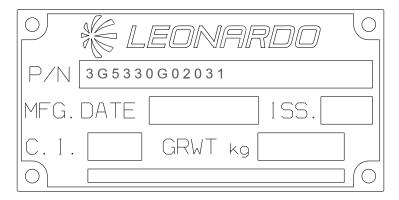


Figure 2 – LHD Identification tag with P/N



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6. OVERALL DIMENSIONS

Length: 493 mmWidth: 616 mmHeight: 220 mm

7. WEIGHT

• Total Weight: 13,5 kg



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8. MAIN PARTS

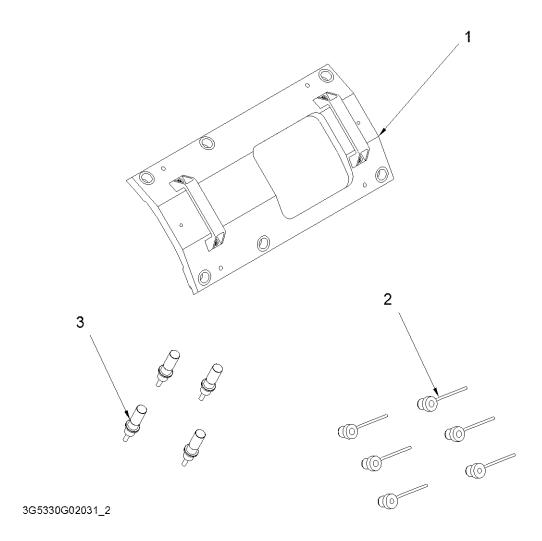


Figure 3 – Main Parts

The main parts of the TOOL KIT, HOIST ATTACHMENT HOLES REPAIR are:

- 1. Template assy
- 2. Guide assy
- 3. Knob

9. MAIN FEATURES DESCRIPTION

The tool is composed of a Template assy, six guide assy and four knobs.

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10. WARNING AND SAFETY NOTES

10.1. WARNING NOTE

Warning Caution	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.
Notice	The Manual can never integrally replace the adequate competence of the user.
Warning Caution	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.
Notice	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.

Table 3 – Warning Note



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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



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11. STORAGE

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

The Kit shall be stored in the dedicated transportation box (part of the Kit).

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: Correct regular maintenance allows preventing most faults and safeguards of tool performance in time, thereby making it last longer.

Every year carry out regular maintenance on a regular basis as detailed in this manual.

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

12.1. CLEANING

Before inspection and after each use, carry out the cleaning of the tool components.

12.1.1. SPECIAL TOOLS, FIXTURE AND EQUIPMENT

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

12.1.2. PART REQUIREMENTS

The parts to clean should be free from the moisture, emulsified water, soaps and metal shavings that can develop of corrosive acids.

They must also be free from wide grease and / or slosh deposits.

12.1.3. MANUAL CLEANING

- A. Clean thoroughly all metal surfaces with a clean lint-free cloth (Local supply) moistened with Cleaning Solvent (MIL-PRF-680C, Type II) to do general spot cleaning of large groups areas. For nylon or Teflon surfaces, the use of a biodegradable, water dilutable cleaning compound (MIL-PRF-87937 D, Type II) is required.
- B. Repeat the cleaning process again by means another clean lint-free cloth (Local supply).
- C. Drying.
 - Verify that the solvent should not be trapped in the cavity. Normally, the solvent evaporates at room temperature in a satisfactory manner.



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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

PERIODICY	CHECK TYPE		COMPONENTS
		Evidence of impact;	All
		Crushing or stripping	All
		Cracks	All
		Dents	All
	NO	Wear	All
	VISUAL EXAMINATION	Distortions	All
BEFORE AND AFTER		Corrosion	All
EVERY USE		Loose or defective attaching parts (warning flag)	All
		Unsticking of parts	Item 2, Nameplate, <u>Figure 5</u> , page 15 Item 4, Plate Identification, <u>Figure 5</u> , page 15 Item 6, Plate Identification, <u>Figure 5</u> , page 15
		Damage to the threads	All threaded std parts.
		Marking	All

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.



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15. SPARE PARTS

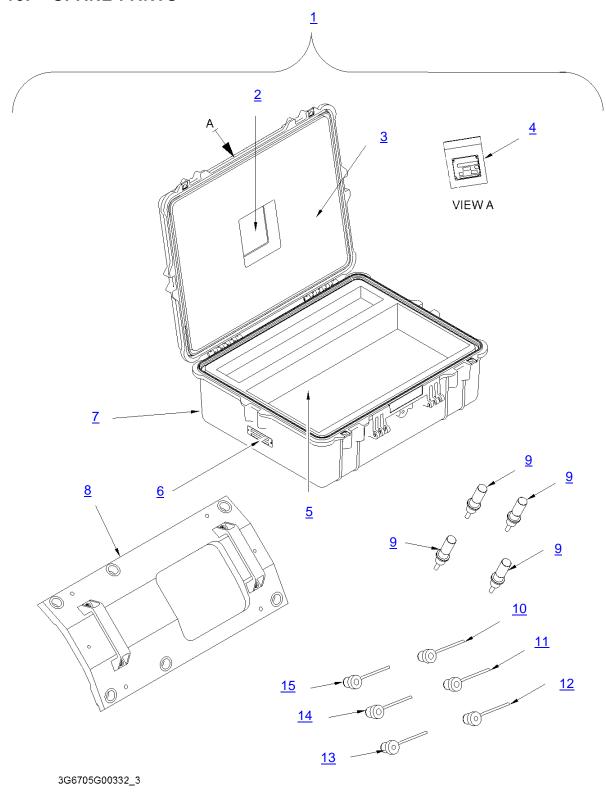


Figure 5 – Spare Parts



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ITEM	P/N	DESCRIPTION	Q.TY
1	3G5330G02031	TOOL KIT, HOIST ATTACHMENT HOLES REPAIR	REF.
2	3G5330G02351	NAMEPLATE	1
3	3G5330G02251	FOAM	1
4	A304A004A1	PLATE IDENTIFICATION	1
5	3G5330G02151	FOAM	1
6	A304A005A1	PLATE IDENTIFICATION	1
7	1600	CASE, TRANSIT	1
8	3G5330G02431	TEMPLATE ASSY (For Breakdown ref. to Fig. 6 and Table 6)	1
9	3G5330G02751	KNOB	4
10	3G5330G02831	GUIDE ASSY DIA 10,50	1
11	3G5330G03131	GUIDE ASSY DIA 11,80	1
12	3G5330G03331	GUIDE ASSY DIA 12,50	1
13	3G5330G03531	GUIDE ASSY DIA 12,70	1
14	3G5330G03731	GUIDE ASSY DIA 9,30	1
15	3G5330G03931	GUIDE ASSY DIA 9,53	1

Table 5 – Spare Parts



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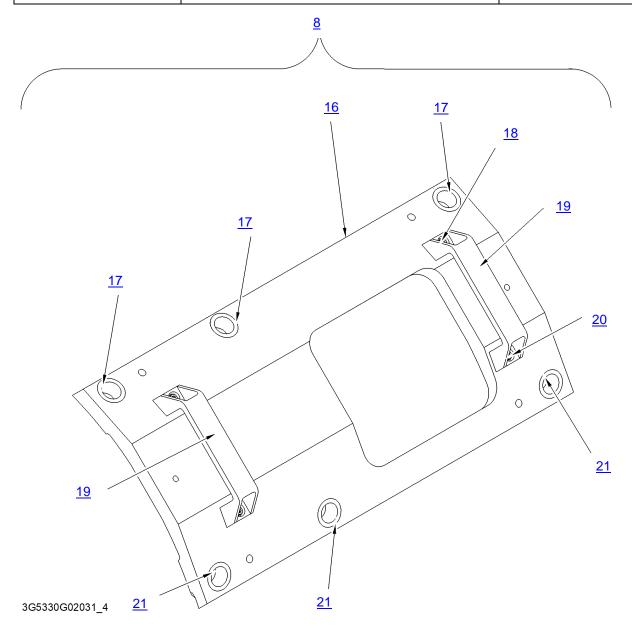


Figure 6 – Spare Parts

ITEM	P/N	DESCRIPTION	Q.TY
8	3G5330G02431	TEMPLATE ASSY	REF
16	3G5330G02551	TEMPLATE	1
17	DIN179A21X20	BUSHING	3
18	MS24673-11	SCREW,CAP,SOCKET HEAD	4
19	3G5330G02651	HANDLE	2
20	NAS1149C0463R	WASHER, FLAT	4
21	3G5330G04151	BUSHING	3

Table 6 – Spare Parts



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16. CE MARKING

No CE marking is required for the P/N 3G5330G02031 TOOL KIT, HOIST ATTACHMENT HOLES REPAIR.



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

FINAL ACCEPTANCE [16]			
STAMP & SIGNATURE [1	7]	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:

	Section 2: HISTORI		
[19]	[8]	[6]	CERTIFICATION [13]
N°USE	DATE	NOTE	STAMP & SIGNATURE [14]
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

RICAL USES RECORD						
'	[19]	[8]		[6]	CERTIFICATION	[13]
	N°USE	DATE	NOTE		STAMP & SIGNATURE	[14]
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					

TLC_Table 2



TOOL LOG CARD

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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	