

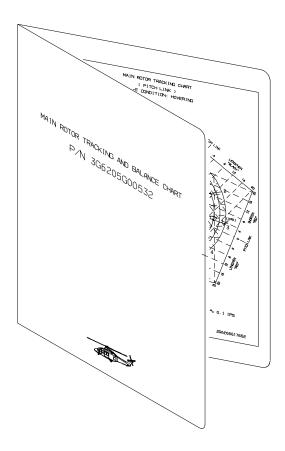
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GSE & TOOL MANUAL

TITLE

M/R TRACKING & BALANCE CHART P/N 3G6205G00532





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REVISION HISTORY

REV	CHANGE DESCRIPTION	DATE
А	First issue	28/10/2021



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1. SCOPE

1.1. APPLICABILITY

The contents of this document are meant to provide information on the P/N 3G6205G00532 M/R TRACKING & BALANCE CHART.

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 3G6205G00532 M/R TRACKING & BALANCE CHART.

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
M/R	Main Rotor

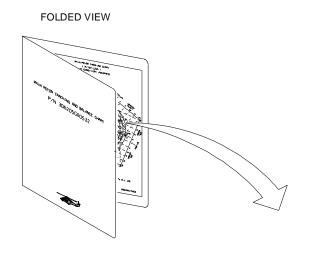


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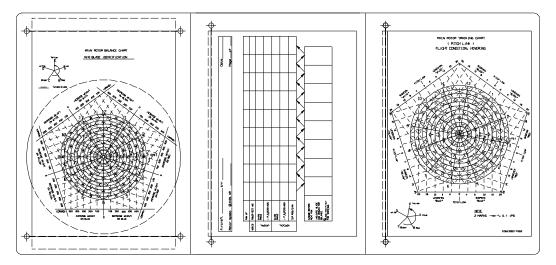
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3. DESCRIPTION

This tool is used for main rotor dynamic track procedures, and to calculate the weight amount requested to balance the main rotor. This tool must be used in conjunction with the main-rotor dynamic balance equipment.



OPEN VIEW



3G6205G00532_1

Figure 1 - Tool kit, M/R Tracking & Balance Chart

4. TOP ASSEMBLY DRAWINGS

Refer to P/N 3G6205G00532 M/R TRACKING & BALANCE CHART.



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5. IDENTIFICATION

The tool identification P/N 3G6205G00532 is marked on the tool.

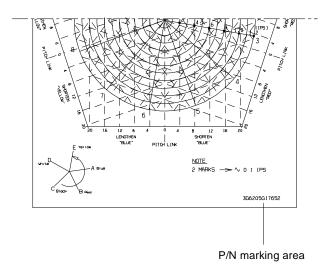


Figure 2 – P/N marking area

6. OVERALL DIMENSIONS

Folded view:

Length: 170 mmWidth: Not Available

• Height: 235 mm

Open view:

Length: 510 mmWidth: Not AvailableHeight: 235 mm

7. WEIGHT

• Total Weight: Not Available



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8. MAIN PARTS

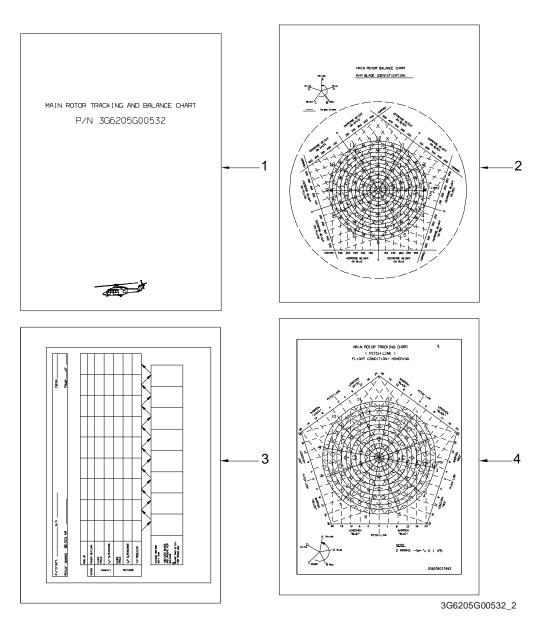


Figure 3 – Main Parts

The main parts of the Tool kit, M/R tracking chart are:

- 1. Graphic (folded view)
- 2. Graphic (open view)
- 3. Graphic (open view)
- 4. Graphic (open view)



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9. MAIN FEATURES DESCRIPTION

The tool is composed of a three graphics charts.



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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.

Ensure that the tool parts are clean before storage.

11.1. LUBRICATION BEFORE STORAGE

Apply the Grease (MIL-PRF-23827) on all threaded parts before tool storage.

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;	N.A.
		Crushing or stripping	N.A.
		Cracks	N.A.
		Dents	N.A.
		Wear	N.A.
	NO NO	Distortions	N.A.
	VAT	Corrosion	N.A.
BEFORE AND AFTER EVERY USE	VISUAL EXAMINATION	Loose or defective attaching parts (warning flag)	N.A.
		Unsticking of parts	All
		Damage to the threads	N.A.
		Marking	N.A.
		Damage to the pins and to the shell	N.A.
		Damage to the insulation sleevers 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

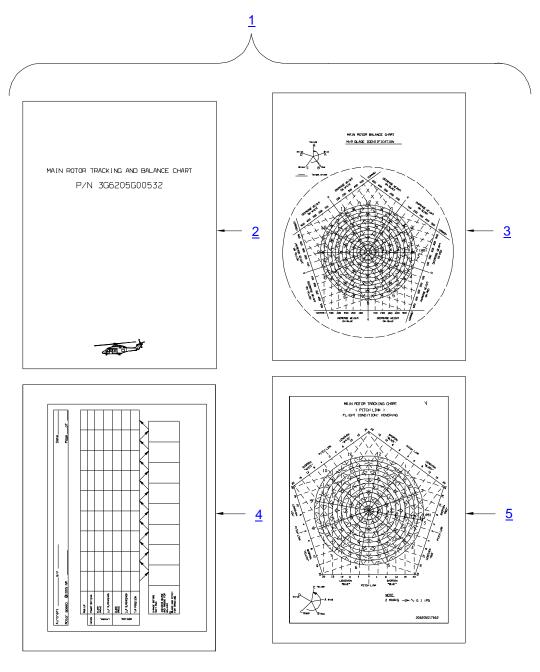
Not Applicable.



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15. SPARE PARTS



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Figure 5 – Spare Parts



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ITEM	P/N	DESCRIPTION	Q.TY
1	3G6205G00532	M/R TRACKING AND BALANCE	REF.
2	3G6205G12252	FOLDER	1
3	3G6205G12332	BALANCE RULE ASSY	1
4	3G6205G12632	M/R TRACKING AND BALANCE CHART BLOCK	1
5	3G6205G17652	M/R TRACKING CHART	1

Table 5 – Spare Parts



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16. CE MARKING

No CE marking is required for the P/N 3G6205G00532 M/R TRACKING & BALANCE CHART.



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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	[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:

	Section 2: HISTOR		
[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		