

---

---

SERVICE BULLETIN

N° **139-757**

**OPTIONAL**

DATE: June 21, 2023

REV. : /

---

---

**TITLE**

**ATA 62 - MAIN ROTOR RETROMOD P/N 3G6200P00111 INSTALLATION**

**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**

AB/AW139 helicopters equipped with Main Rotor Installation P/N 3G6200A00111, P/N 3G6200A00112, P/N 3G6200A00114, P/N 4G6200A00111, P/N 4G6200A00112 or P/N 4G6200A00113.

## **B. COMPLIANCE**

At Customer's option.

## **C. CONCURRENT REQUIREMENTS**

N.A.

## **D. REASON**

Leonardo developed the retromod P/N 3G6200P00111 in order to reduce the installation and maintenance effort of the Main Rotor Head. Indeed, the new configuration ensures a greater stability of the MR bolts torque and a greater stiffness of the whole assembly.

LH issued this SB for the following reason:

|  |   |
|--|---|
| Helicopter Reliability/Maintainability |   |
| Product Improvement                    | ✓ |
| Obsolescence                           |   |
| Customization                          |   |
| Product/Capability Enhancement         |   |

## **E. DESCRIPTION**

This Service Bulletin is issued in order to provide the necessary instruction on how to perform the installation of retromod P/N 3G6200P00111, related to a new Main Rotor Head configuration, consisting in the replacement of washer, nuts, bolts and retaining element assy.

## **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 4 (four) MMH are deemed necessary.

MMH are based on hands-on time and can change with helicopter configuration, personnel and facilities available. MMH are not comprehensive of the overall hours necessary to get access to work areas and to remove all the equipment that interferes with the application of the prescribed instructions.

## H. WEIGHT AND BALANCE

N.A

## I. REFERENCES

### I.1 PUBLICATIONS

Following Data Modules refer to AMP:

| <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-62-21-05-00A-520A-A | Top conical ring - Remove procedure          | -           |
| DM03 39-A-62-21-05-00A-720A-A | Top conical ring - Install procedure         | -           |

### I.2 ACRONYMS & ABBREVIATIONS

|      |                                    |
|------|------------------------------------|
| AMDI | Aircraft Material Data Information |
| AMP  | Aircraft Maintenance Publication   |
| AR   | As Required                        |
| DM   | Data Module                        |
| DOA  | Design Organization Approval       |
| EASA | European Aviation Safety Agency    |
| FIPS | Full Ice Protection System         |

|      |  |
|------|--|
| IPD  | Illustrated Part Data                      |
| ITEP | Illustrated tool and equipment publication |
| LH   | Leonardo Helicopters Division              |
| MMH  | Maintenance Man Hours                      |
| N.A. | Not Applicable                             |
| P/N  | Part Number                                |
| SB   | Service Bulletin                           |

### **I.3 ANNEX**

N.A.

### **J. PUBLICATIONS AFFECTED**

N.A.

### **K. SOFTWARE ACCOMPLISHMENT SUMMARY**

N.A.

## 2. MATERIAL INFORMATION

### A. REQUIRED MATERIALS

#### A.1 PARTS

| # | P/N          | ALTERNATIVE P/N | DESCRIPTION                             | Q.TY | LVL | NOTE | LOG P/N   |
|---|--------------|-----------------|---|------|-----|------|-----------|
| 1 | 3G6200P00111 |                 | MAIN ROTOR<br>INSTALLATION<br>RETRO MOD | REF  | .   |      | -         |
| 2 | 3G6220A02152 |                 | Washer                                  | 1    | ..  |      | 139-757L1 |
| 3 | 3G6220A02252 |                 | Nut                                     | 1    | ..  |      | 139-757L1 |
| 4 | 3G6220A02334 |                 | Retaining element assy                  | 1    | ..  |      | 139-757L1 |
| 5 | 3G6220A11751 |                 | Nut                                     | 12   | ..  |      | 139-757L1 |
| 6 | 3G6220L00851 |                 | Bolt                                    | 12   | ..  |      | 139-757L1 |

Refer also to IPD for the spares materials required to comply with the AMP DMs referenced in the accomplishment instructions.

#### A.2 CONSUMABLES

The following consumable materials, or equivalent, are necessary to accomplish this Service Bulletin:

| # | SPEC./LHD CODE NUMBER | DESCRIPTION | Q.TY | NOTE | PART |
|---|-----------------------|-------------|------|------|------|
| 7 | MS20995C32            | Lock wire   | AR   | (1)  | -    |

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

#### A.3 LOGISTIC MATRIX

In order to apply this Service Bulletin, the following Logistic P/N can be ordered in accordance with the applicable notes:

| LOGISTIC P/N | Q.TY (PER HELO) | NOTE | PART |
|--------------|-----------------|------|------|
| 139-757L1    | 1               | -    | -    |

#### NOTE

(1) Item to procured as local supply.

### B. SPECIAL TOOLS

Refer 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**

#### **GENERAL NOTES**

- a) 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.
  - b) Exposed thread surface and nut must be protected using a layer of tectyl according to MIL-C-16173 grade I.
  - c) All lengths are in mm.
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.

#### **NOTE**

The following Step 2 is applicable **ONLY** to helicopters equipped with main rotor installation P/N 3G6200A00111 or P/N 3G6200A00112 or P/N 3G6200A00114.

2. In accordance with applicable steps of AMP DM 39-A-62-21-05-00A-520A-A (Configuration A) and with reference to Figures 1 and 2, remove from the main rotor head the following components:
  - washer P/N 3G6220A02151;
  - nut P/N 3G6220A02251;
  - retaining element assy P/N 3G6220A02333;
  - n°12 bolt P/N 3G6220A02451;
  - n°12 nut P/N NAS509-8.

**NOTE**

The following Step 3 is applicable ONLY to helicopters equipped with main rotor head installation P/N 4G6200A00111 or P/N 4G6200A00112 or P/N 4G6200A00113.

3. In accordance with applicable steps of AMP DM 39-A-62-21-05-00A-520A-A (Configuration A) and with reference to Figures 1 and 2, remove from the main rotor head the following components:
  - washer P/N 3G6220A02151;
  - nut P/N 3G6220A02251;
  - retaining element assy P/N 4G6220A01631;
  - n°12 bolt P/N 3G6220A02451;
  - n°12 nut P/N NAS509-8.

**NOTE**

Check the tightening torque and the correct installation of the bolt P/N 3G6220L00851 and the nuts P/N 3G6220A11751.

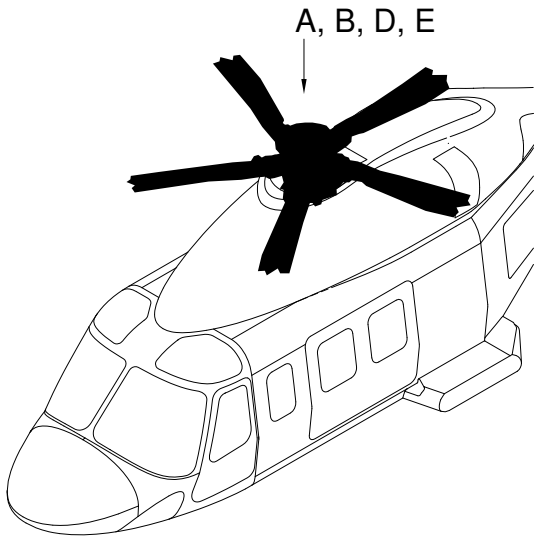
4. In accordance with applicable steps of AMP DM 39-A-62-21-05-00A-720A-A (Configuration B) and with reference to Figures 3 and 4, install on the main rotor head the following components:
  - washer P/N 3G6220A02152;
  - nut P/N 3G6220A02252;
  - retaining element assy P/N 3G6220A02334;
  - n°12 bolt P/N 3G6220L00851;
  - n°12 nut P/N 3G6220A11751.
5. Return the helicopter to flight configuration and record for compliance with this Service Bulletin on the helicopter logbook.
6. Gain access to My Communications section on Leonardo WebPortal and compile the "Service Bulletin Application Communication".

As an alternative, send the attached compliance form to the following mail box:

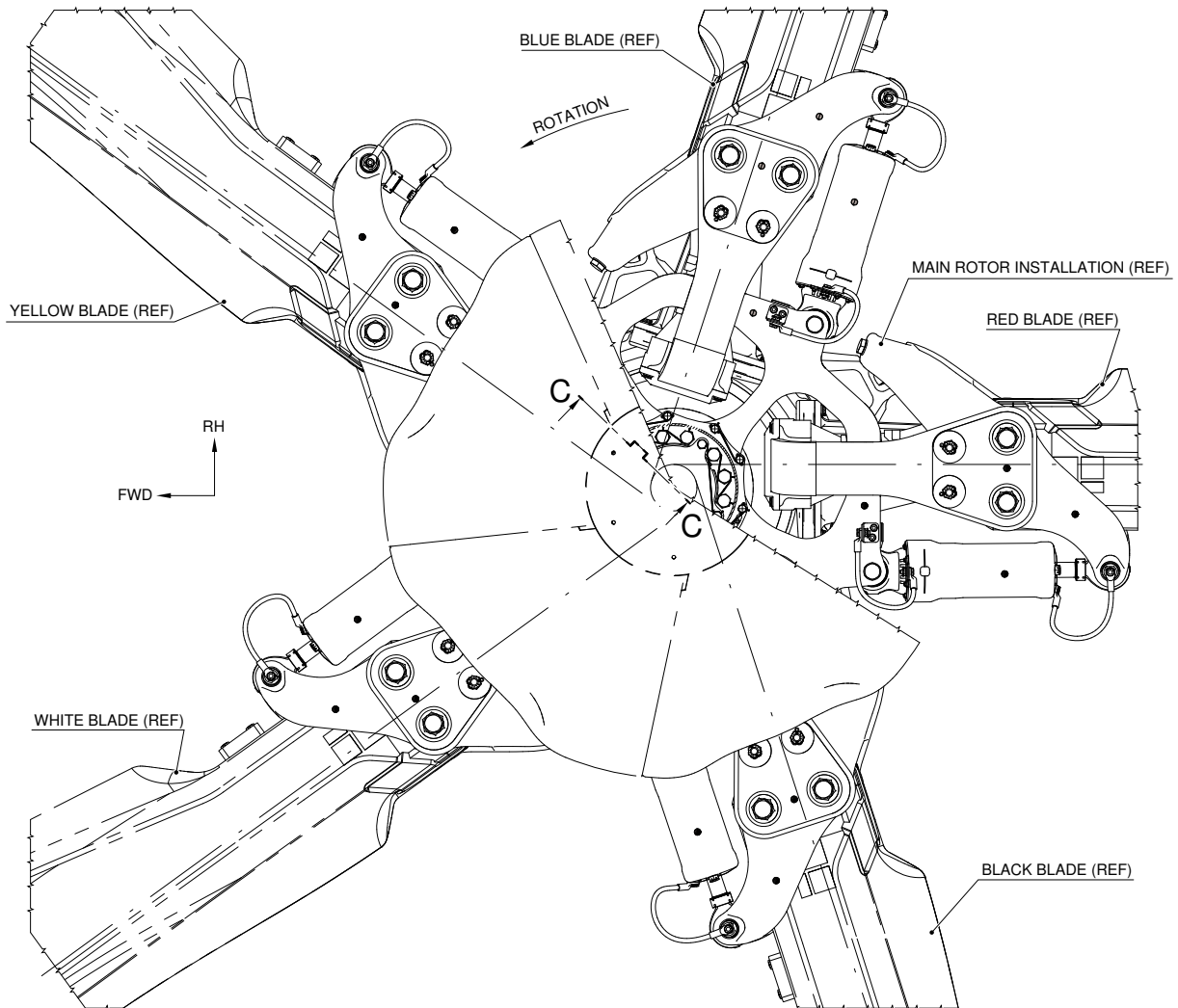
[engineering.support.lhd@leonardo.com](mailto:engineering.support.lhd@leonardo.com)

and (for North, Central and South America) also to:

[AWPC.Engineering.Support@leonardocompany.us](mailto:AWPC.Engineering.Support@leonardocompany.us)



**3G6200P00111**  
**MAIN ROTOR INSTALLATION**  
**RETRO MOD**



**VIEW A**

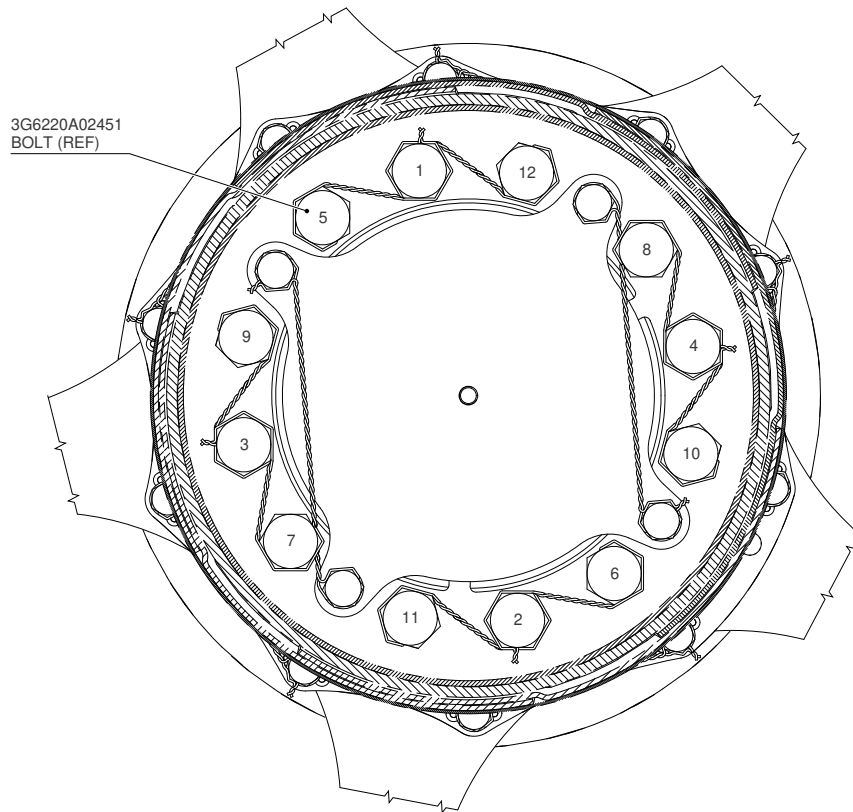
(FOR REMOVAL)

STRUCTURES AND SYSTEMS ARE PARTIALLY  
OMITTED FOR BETTER CLARITY PURPOSE

**Figure 1**

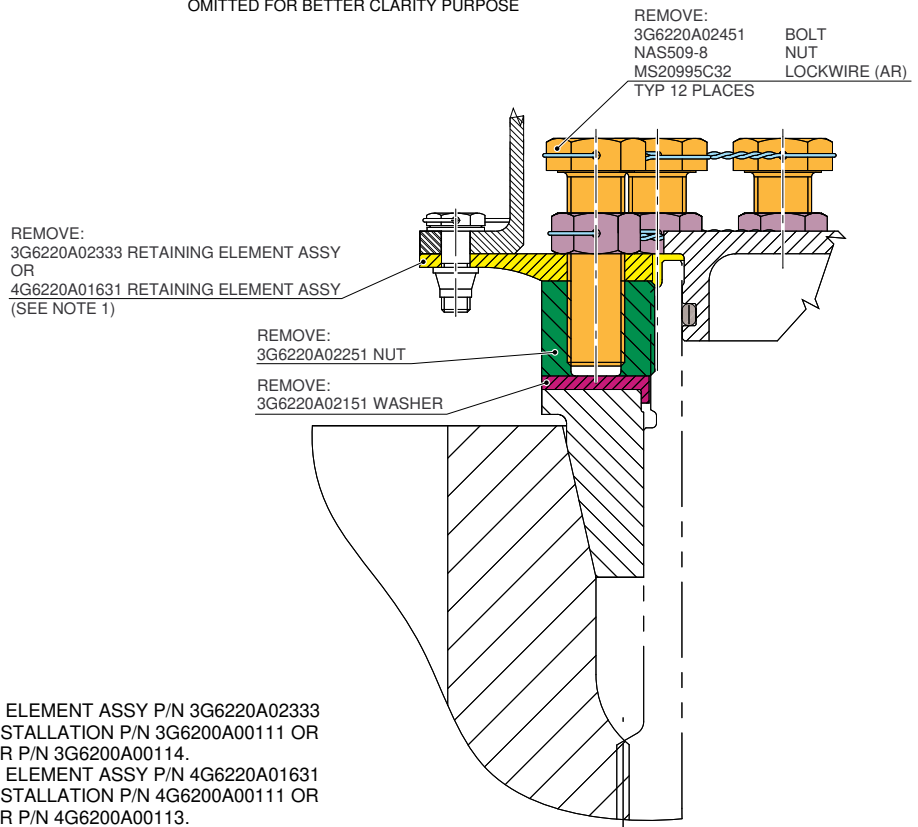
S.B. N°139-757 OPTIONAL  
DATE: June 21, 2023  
REVISION: /





**VIEW B**

STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE



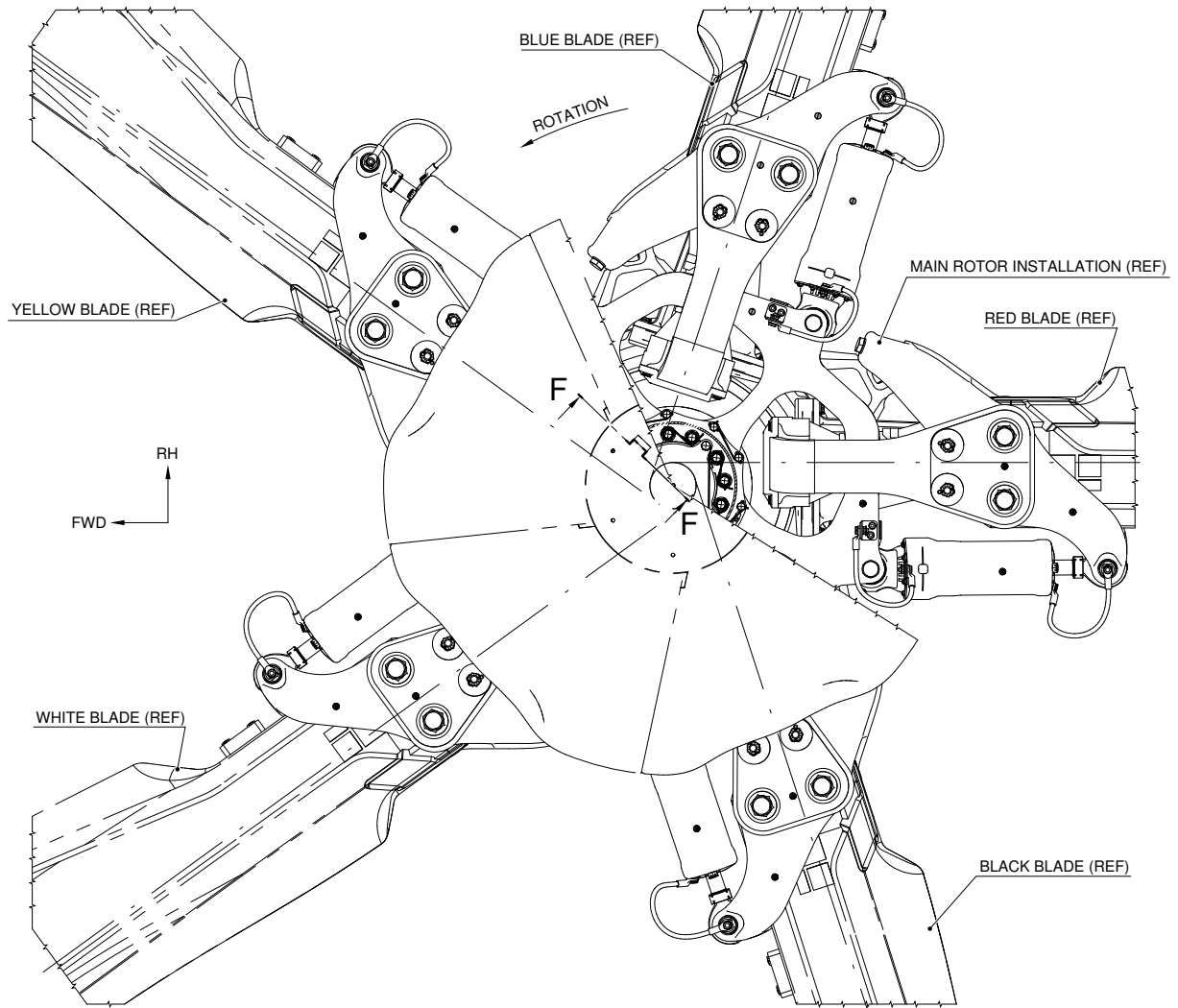
**SECTION C-C**

STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

**NOTE:**

- 1 REMOVE RETAINING ELEMENT ASSY P/N 3G6220A02333 FOR MAIN ROTOR INSTALLATION P/N 3G6200A00111 OR P/N 3G6200A00112 OR P/N 3G6200A00114.  
REMOVE RETAINING ELEMENT ASSY P/N 4G6220A01631 FOR MAIN ROTOR INSTALLATION P/N 4G6200A00111 OR P/N 4G6200A00112 OR P/N 4G6200A00113.

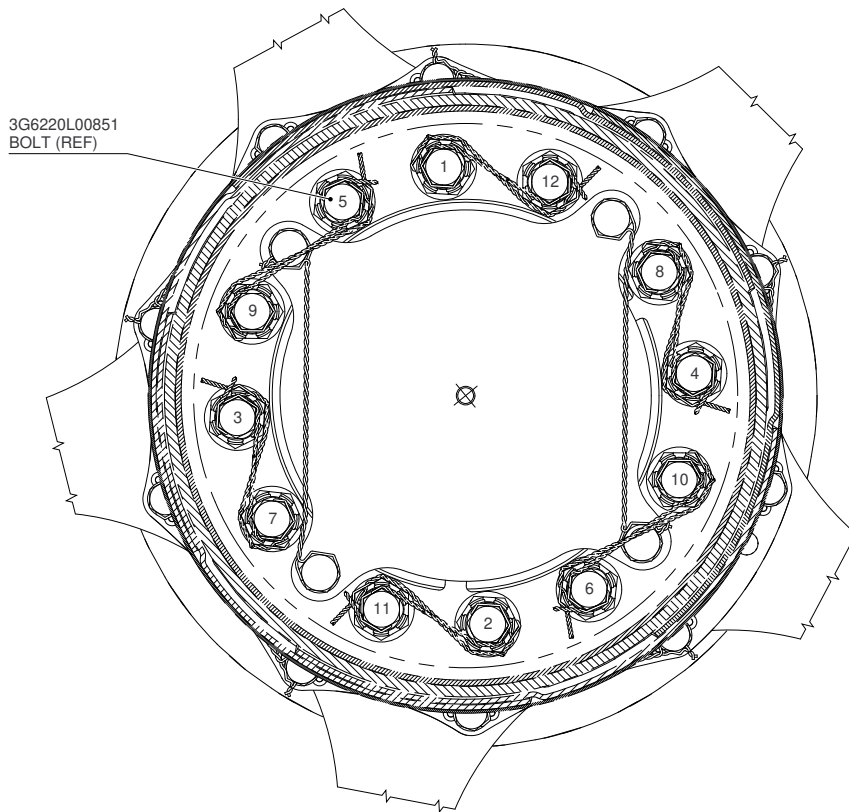
**Figure 2**



**VIEW D**  
(FOR INSTALLATION)  
STRUCTURES AND SYSTEMS ARE PARTIALLY  
OMITTED FOR BETTER CLARITY PURPOSE

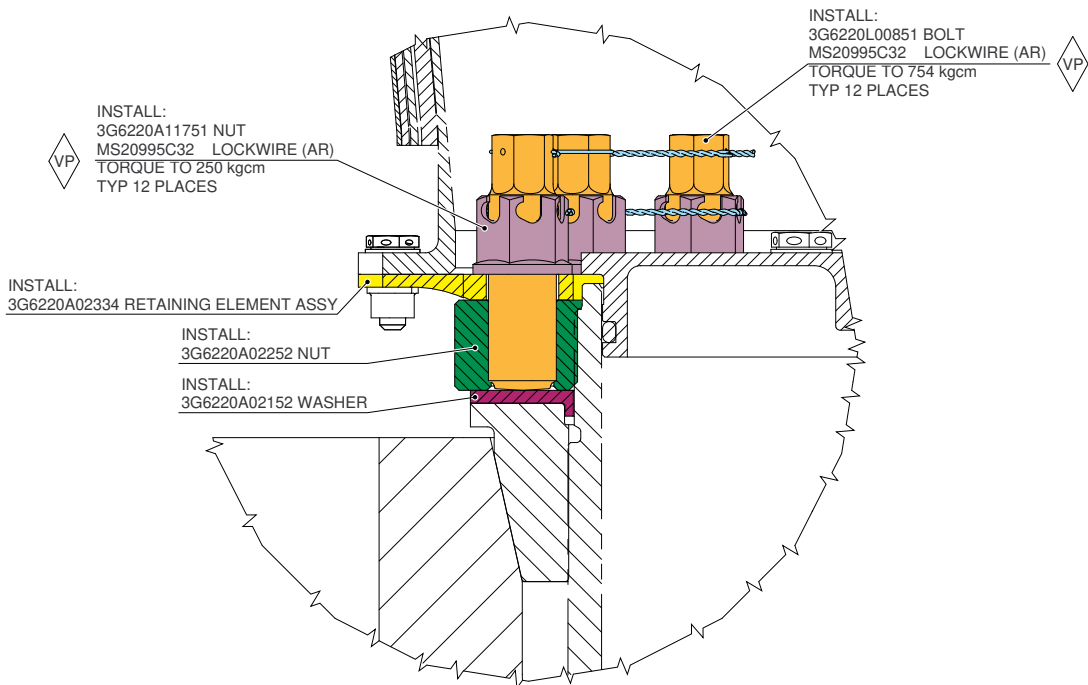
**Figure 3**

S.B. N°139-757 OPTIONAL  
DATE: June 21, 2023  
REVISION: /



**VIEW E**

STRUCTURES AND SYSTEMS ARE PARTIALLY  
OMITTED FOR BETTER CLARITY PURPOSE



**SECTION F-F**

STRUCTURES AND SYSTEMS ARE PARTIALLY  
OMITTED FOR BETTER CLARITY PURPOSE

**Figure 4**

|  |   |       |
|--|---|-------|
| Please send to the following address:<br><br><b>LEONARDO S.p.A.</b><br><b>CUSTOMER SUPPORT &amp; SERVICES - ITALY</b><br><br><b>PRODUCT SUPPORT ENGINEERING &amp; LICENSES DEPT.</b><br>Via Giovanni Agusta, 520<br>21017 Cascina Costa di Samarate (VA) - ITALY<br>Tel.: +39 0331 225036 Fax: +39 0331 225988 | <b>SERVICE BULLETIN COMPLIANCE FORM</b> | 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.