
SERVICE BULLETIN

N° **139-778**

RECOMMENDED

DATE: June 12, 2024

REV. : /

TITLE

ATA 55 – TAIL PLANE ROD ASSY INSTALLATION INSPECTION

REVISION LOG

First Issue

1. PLANNING INFORMATION

A. EFFECTIVITY

All the tail plane rod assy P/N 3G5510A08931 with S/N reported in Annex A and NOT compliant with this Service Bulletin, installed on AB/AW139 helicopters and/or kept in stock.

B. COMPLIANCE

NOTE

The compliance time is subject to the same tolerances as per AMPI Chap. 05 DM 39-A-05-11-00-00A-028E-P Permitted inspection/check interval tolerances - General.

NOTE

The following compliance applies to the tail plane rod assy P/N 3G5510A08931 installed on AB/AW139 helicopters.

Within and not later than 300 flight hours after the issue of this Service Bulletin.

NOTE

The following compliance applies to the tail plane rod assy P/N 3G5510A08931 kept in stock.

Before the installation on the helicopter.

Leonardo Helicopters recommends the implementation of this SB in accordance with the indicated compliance time, with related tolerances as applicable. It is Operator's responsibility to properly plan and execute the SB application in accordance with Leonardo Helicopters recommendations. The Operator remains liable for any deviation.

C. CONCURRENT REQUIREMENTS

N.A.

D. REASON

Leonardo Helicopters issued this Service Bulletin as consequence of some in-service reports and a Quality Alert from MAG: it has been identified a batch of potentially non-conformant tail plane rod assy P/N 3G5510A08931 because of the incorrect placement of the "INBOARD" decal P/N 3G1120A13951.

This Service Bulletin is issued in order to identify and correct the affected components.

Leonardo Helicopters issued this SB for the following reason:

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

E. DESCRIPTION

This Service Bulletin provides the necessary instructions to:

- identify the affected tail plane rod assy P/N 3G5510A08931 from a list of potentially affected component S/Ns, inspecting the item(s) installation on the helicopter or the item(s) kept in stock;
- fix the issue on the affected components, replacing the “INBOARD” decal P/N 3G1120A13951, as applicable;
- restore the correct tail plane rod assy P/N 3G5510A08931 installation for the affected item(s) installed on the helicopter.

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 Leonardo Helicopters 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, approximately six (6) 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 AMPI:

| <u>DATA MODULE</u> | <u>DESCRIPTION</u> | <u>PART</u> |
|-------------------------------|--|-------------|
| DM01 39-A-05-11-00-00A-028E-P | Permitted inspection/check interval tolerances – General | - |

Following Data Modules refer to AMP:

| <u>DATA MODULE</u> | <u>DESCRIPTION</u> | <u>PART</u> |
|-------------------------------|---|-------------|
| DM02 39-A-00-20-00-00A-120A-A | Helicopter on ground for a safe maintenance | - |
| DM03 39-A-06-41-00-00A-010A-A | Access doors and panels – General data | - |
| DM04 39-A-11-00-01-00A-520A-A | Decal (polyester film) – Remove procedure. | - |
| DM05 39-A-11-00-01-00A-720A-A | Decal – Install procedure | - |
| DM06 39-C-55-11-02-00A-520A-A | Left rod – Remove procedure | - |
| DM07 39-C-55-11-02-00A-720A-A | Left rod – Install procedure | - |
| DM08 39-C-55-11-03-00A-520A-A | Right rod – Remove procedure | - |
| DM09 39-C-55-11-03-00A-720A-A | Right rod – Install procedure | - |

I.2 ACRONYMS & ABBREVIATIONS

| | |
|------|---|
| AMD | Aircraft Material Data Information |
| AMP | Aircraft Maintenance Publication |
| AMPI | Aircraft Maintenance Planning Information |
| AR | As Required |
| DM | Data Module |
| DOA | Design Organization Approval |
| EASA | European Union Aviation Safety Agency |
| IPD | Illustrated Parts Data Publication |

ITEP Illustrated Tools and Equipment Publication
LH Left Hand
MAG Mecaer Aviation Group
MMH Maintenance Man Hours
N.A. Not Applicable
P/N Part Number
RH Right Hand
SB Service Bulletin
S/N Serial Number

I.3 ANNEX

Annex A AFFECTED TAIL PLANE ROD ASSY P/N 3G5510A08931 S/NS
LIST

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 | 3G1120A13951 | | Decal "INBOARD" | AR | . | (1) | - |

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

A.2 CONSUMABLES

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

A.3 LOGISTIC MATRIX

N.A.

NOTES

(1) Item to be ordered in q.ty 1 only if the installed one is not compliant.

B. SPECIAL TOOLS

The following special tools, or equivalent, are necessary to accomplish this Service Bulletin:

| # | P/N | DESCRIPTION | Q.TY | NOTE | PART |
|---|------------|---------------|------|------|------|
| 2 | Commercial | Caliper gauge | 1 | (B1) | - |

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

SPECIAL TOOLS NOTES

(B1) Item to be procured as local supply.

C. INDUSTRY SUPPORT INFORMATION

Owners/operators who comply with the instructions of this Service Bulletin no later than the applicable date in the “Compliance” section will be eligible to receive required materials on free of charge basis, except for Consumable Materials and Special Tools.

NOTE: Customers who fail to comply with the instructions in this Service Bulletin before the compliance date are not eligible for the aforementioned special policy.

Please Issue relevant MMIR form to your Warranty Administration Dpt. including the Inspection Report Form in Figure 4 completed in every part and the Log Card of the affected S/N.

If the required documentation is not be provided, the relevant MMIR will be rejected.

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) Let adhesive cure at room temperature for at least 24 hours unless otherwise specified.
- c) Exposed thread surface and nut must be protected using a layer of tectyl according to MIL-C-16173 grade I.
- d) All lengths are in mm.

NOTE

The following steps 1, 2, 3, 4, 6, 10 and 13 are not applicable to the tail plane rod assy P/N 3G5510A08931 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-06-41-00-00A-010A-A and with reference to Figure 1 View A, remove the access panels 360DL and 360CL to gain access to the area affected by the inspection.
3. With reference to Figure 1 View B, Figure 2 and Figure 3, check if the tail plane rod assy P/N 3G5510A08931 is installed in the correct position, as described in the following procedure:

NOTE

As shown in Figure 3, the correct installation of the tail plane rod assy P/N 3G5510A08931 has:

- the longer highlighted side of the fork end (blue) on the OUTBOARD side of the installation;
- the shorter highlighted side of the fork end (green) on the INBOARD side of the installation.

- 3.1 Using a caliper gauge, take the dimension “A” and “B” on the fork lug of the tail plane rod assy P/N 3G5510A08931 and verify that the larger dimension is on the inboard side of the tail plane rod assy installation.
- 3.2 In case of findings, compile and send the Inspection Report Form in Figure 4 and proceed with step 6; otherwise proceed with the following step.
4. In accordance with Figure 1 View B, check if the decal “INBOARD” P/N 3G1120A13951 facing the inboard side of the helicopter.
In case of not compliant decal installation, compile and send the Inspection Report Form in Figure 4 and proceed with step 6; otherwise proceed with step 11.

NOTE

The following step 5 is applicable ONLY to the tail plane rod assy P/N 3G5510A08931 kept in stock.

NOTE

The decal “INBOARD” P/N 3G1120A13951 must be installed on the same side where fork lug is located 11.7 mm from rod axis (Ref. Figure 2 Detail C).

5. In accordance with Figure 2, check if the decal “INBOARD” P/N 3G1120A13951 is installed in the correct position.
In case of not compliant installation, compile and send the Inspection Report Form in Figure 4 and proceed with step 7, otherwise proceed with step 11.
6. In accordance with AMP DM 39-C-55-11-02-00A-520A-A (LH side) or DM 39-C-55-11-03-00A-520A-A (RH side) and with reference to Figure 1, remove the left or right tail plane rod assy P/N 3G5510A08931 from the helicopter, as necessary.

NOTE

The following steps 7 thru 9 are applicable to the tail plane rod assy P/N 3G5510A08931 both removed from the helicopter and kept in stock.

7. Put the tail plane rod assy on an applicable work table.

8. In accordance with AMP DM 39-A-11-00-01-00A-520A-A and with reference to Figure 2 View D, remove the existing decal from the wrong position on the tail plane rod assy P/N 3G5510A08931.

NOTE

Install the decal "INBOARD" P/N 3G1120A13951 taking care to bond it on the same side where fork lug is located 11.7 mm from rod axis (Ref. Figure 2 Detail C).

9. In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 2, install the new decal "INBOARD" P/N 3G1120A13951 to the indicated position on the tail plane rod assy P/N 3G5510A08931.
10. In accordance with AMP DM 39-C-55-11-02-00A-720A-A (LH side) or DM 39-C-55-11-03-00A-720A-A (RH side) and with reference to Figure 1, install the left or right tail plane rod assy P/N 3G5510A08931 on the helicopter, as necessary.

NOTE

The following step is applicable to the tail plane rod assy P/N 3G5510A08931 both removed from the helicopter and kept in stock.

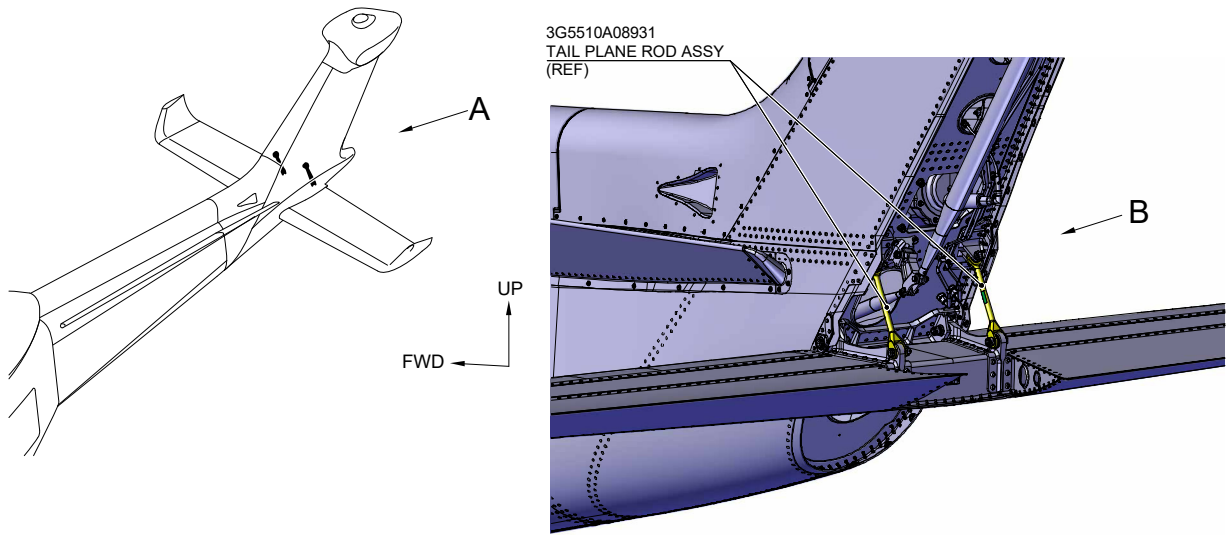
11. Record for compliance with this Service Bulletin on the Log Card of the tail plane rod assy P/N 3G5510A08931.
12. In accordance with AMP DM 39-A-06-41-00-00A-010A-A and with reference to Figure 1 View A re-install the access panels 360DL and 360CL previously removed.
13. Return the helicopter to flight configuration and record for compliance with this Service Bulletin on the helicopter logbook.
14. Gain access to My Communications section on [Leonardo Customer Portal](#) and compile the "Service - Technical Bulletin Application".

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

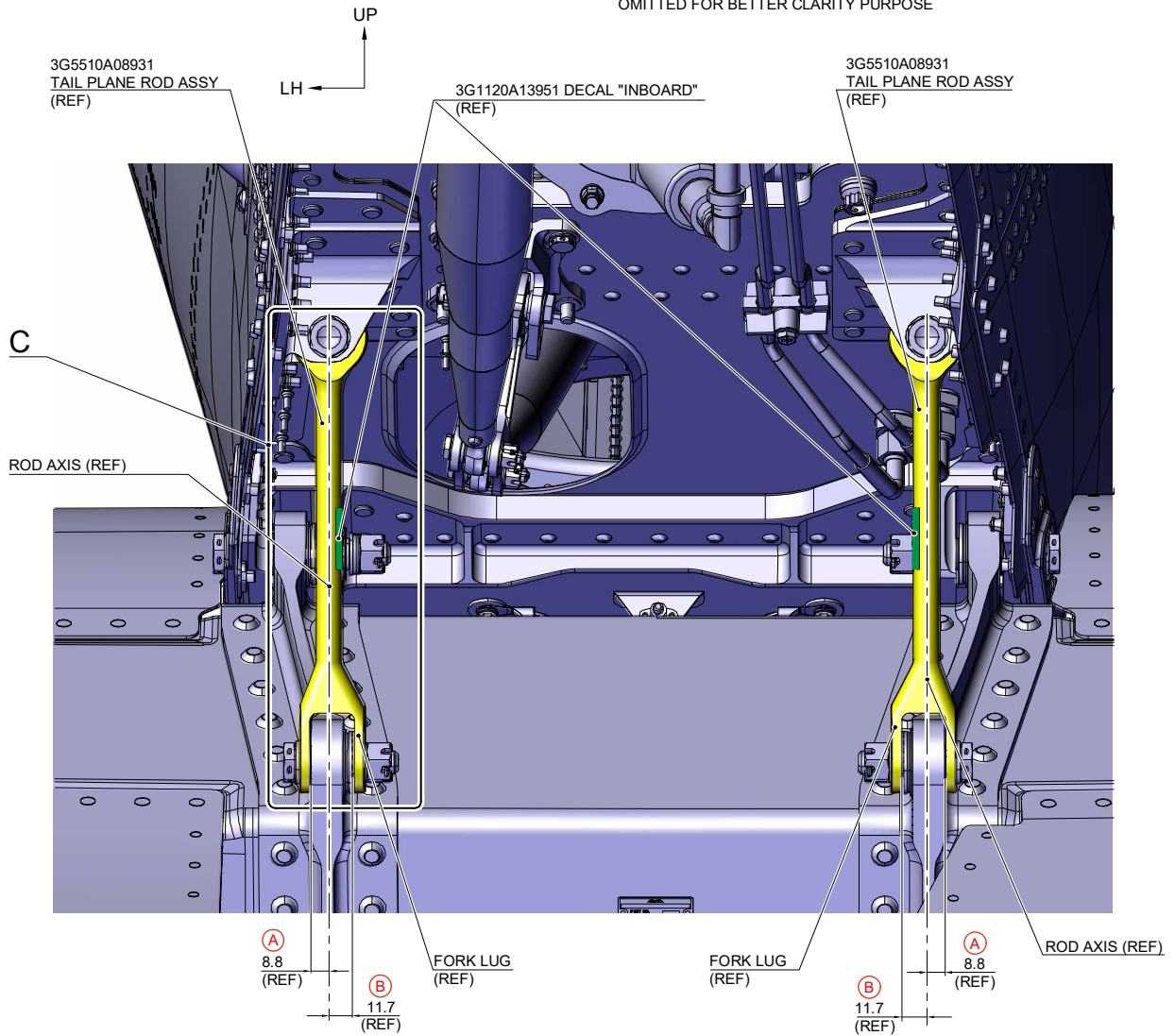
engineering.support.lhd@leonardo.com

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

AWPC.Engineering.Support@leonardocompany.us



VIEW A
STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE



VIEW B
STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

Figure 1

NOTE:

INSTALL DECAL INBOARD TAKING CARE TO BOND IT ON THE SAME SIDE WHERE FORK LUG IS LOCATED 11.7 MM FROM ROD AXIS.

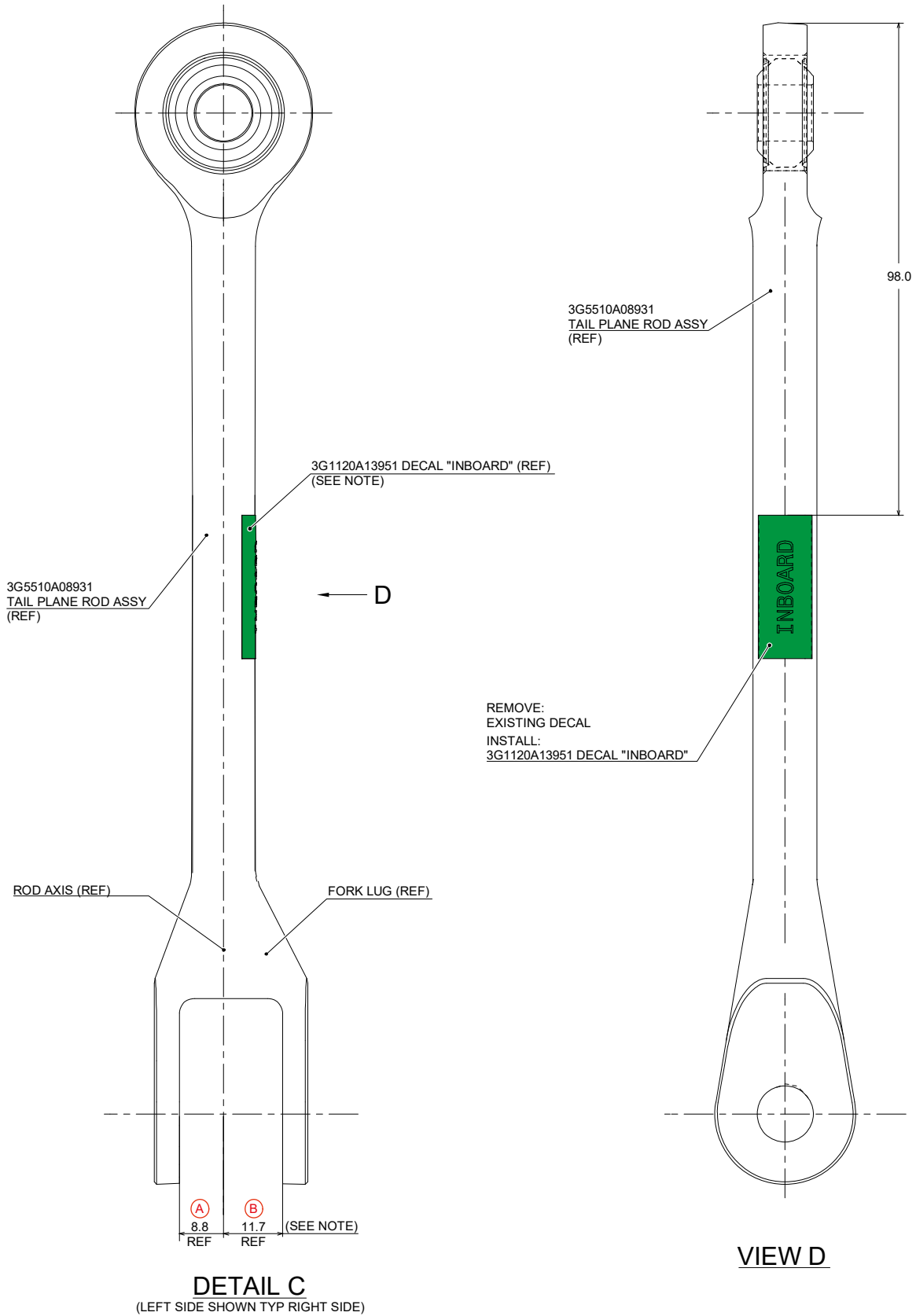


Figure 2

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The correct installation of tail plane rod assy P/N 3G5510A08931 has:

- the longer highlighted side of the fork end (blue) on the **OUTBOARD** side of the installation;
- the shorter highlighted side of the fork end (green) on the **INBOARD** side of the installation.

LH tail pane rod assy shown.
RH tail pane rod assy is opposite.

Figure 3

| SB 139-778 Rev. / – Inspection Report Form | | |
|--|---|---|
| DATE | | |
| Customer | | |
| Affected Tail plane rod assy P/N 3G5510A08931 | S/N | |
| | | |
| | <table border="1" style="width: 100%;"> <tr> <td style="text-align: center;"><input type="checkbox"/> INSTALLED ON THE HELICOPTER</td> <td style="text-align: center;"><input type="checkbox"/> KEPT IN STOCK</td> </tr> </table> | <input type="checkbox"/> INSTALLED ON THE HELICOPTER |
| <input type="checkbox"/> INSTALLED ON THE HELICOPTER | <input type="checkbox"/> KEPT IN STOCK | |
| Note: | | |

Figure 4

S.B. N°139-778 RECOMMENDED
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ANNEX A

AFFECTED TAIL PLANE ROD ASSY P/N 3G5510A08931 S/NS LIST

ANNEX A



| | | | | | | |
|----------|----------|----------|----------|----------|----------|----------|
| MCR02148 | MCR02178 | MCR02211 | MCR02244 | MCR02281 | MCR02347 | MCR02380 |
| MCR02149 | MCR02181 | MCR02212 | MCR02247 | MCR02282 | MCR02348 | MCR02381 |
| MCR02150 | MCR02182 | MCR02213 | MCR02250 | MCR02283 | MCR02349 | MCR02382 |
| MCR02151 | MCR02183 | MCR02214 | MCR02251 | MCR02284 | MCR02350 | MCR02383 |
| MCR02152 | MCR02184 | MCR02215 | MCR02252 | MCR02285 | MCR02351 | MCR02387 |
| MCR02153 | MCR02185 | MCR02216 | MCR02253 | MCR02286 | MCR02354 | MCR02388 |
| MCR02154 | MCR02186 | MCR02217 | MCR02254 | MCR02287 | MCR02355 | MCR02390 |
| MCR02155 | MCR02187 | MCR02218 | MCR02256 | MCR02288 | MCR02356 | MCR02391 |
| MCR02156 | MCR02188 | MCR02219 | MCR02257 | MCR02289 | MCR02357 | MCR02392 |
| MCR02157 | MCR02189 | MCR02220 | MCR02258 | MCR02290 | MCR02358 | MCR02393 |
| MCR02158 | MCR02190 | MCR02221 | MCR02259 | MCR02291 | MCR02359 | MCR02394 |
| MCR02159 | MCR02191 | MCR02222 | MCR02260 | MCR02292 | MCR02360 | MCR02395 |
| MCR02160 | MCR02192 | MCR02223 | MCR02261 | MCR02293 | MCR02361 | MCR02396 |
| MCR02161 | MCR02194 | MCR02224 | MCR02262 | MCR02294 | MCR02362 | MCR02405 |
| MCR02162 | MCR02195 | MCR02225 | MCR02263 | MCR02295 | MCR02363 | MCR02408 |
| MCR02163 | MCR02196 | MCR02227 | MCR02264 | MCR02296 | MCR02364 | MCR02409 |
| MCR02164 | MCR02197 | MCR02228 | MCR02265 | MCR02297 | MCR02365 | MCR02410 |
| MCR02165 | MCR02198 | MCR02229 | MCR02267 | MCR02298 | MCR02366 | MCR02412 |
| MCR02166 | MCR02199 | MCR02231 | MCR02268 | MCR02299 | MCR02367 | MCR02413 |
| MCR02167 | MCR02200 | MCR02232 | MCR02270 | MCR02300 | MCR02368 | MCR02414 |
| MCR02168 | MCR02201 | MCR02233 | MCR02271 | MCR02301 | MCR02369 | MCR02416 |
| MCR02169 | MCR02202 | MCR02234 | MCR02272 | MCR02302 | MCR02371 | MCR02417 |
| MCR02170 | MCR02203 | MCR02235 | MCR02273 | MCR02303 | MCR02372 | MCR02419 |
| MCR02171 | MCR02204 | MCR02236 | MCR02274 | MCR02304 | MCR02373 | MCR02420 |
| MCR02172 | MCR02205 | MCR02237 | MCR02275 | MCR02305 | MCR02374 | MCR02421 |
| MCR02173 | MCR02206 | MCR02239 | MCR02276 | MCR02306 | MCR02375 | MCR02422 |
| MCR02174 | MCR02207 | MCR02240 | MCR02277 | MCR02329 | MCR02376 | MCR02424 |
| MCR02175 | MCR02208 | MCR02241 | MCR02278 | MCR02343 | MCR02377 | MCR02425 |
| MCR02176 | MCR02209 | MCR02242 | MCR02279 | MCR02344 | MCR02378 | MCR02427 |
| MCR02177 | MCR02210 | MCR02243 | MCR02280 | MCR02345 | MCR02379 | MCR02428 |

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ANNEX A

| | | | | | | |
|----------|----------|----------|----------|----------|----------|----------|
| MCR02429 | MCR02435 | MCR02447 | MCR02453 | MCR02464 | MCR02470 | MCR02484 |
| MCR02430 | MCR02436 | MCR02448 | MCR02454 | MCR02465 | MCR02471 | MCR02485 |
| MCR02431 | MCR02443 | MCR02449 | MCR02455 | MCR02466 | MCR02472 | MCR02486 |
| MCR02432 | MCR02444 | MCR02450 | MCR02456 | MCR02467 | MCR02473 | MCR02487 |
| MCR02433 | MCR02445 | MCR02451 | MCR02457 | MCR02468 | MCR02474 | MCR02488 |
| MCR02434 | MCR02446 | MCR02452 | MCR02463 | MCR02469 | MCR02483 | MCR02490 |

