

**CONCERNED AIRCRAFT:
APM20, APM30, APM40 & APM41****SUBJECT:
Inspection and change of flap lever screws****1 INFORMATION****1.1. APPLICABILITY**

This service bulletin affects all serial number of the following types:

- EASA.A.306: APM20, APM30 up to s/n 41
- EASA.A.567: APM40, APM41 up to s/n 5

1.2. SERVICE BULLETIN OR CONCURRENT SERVICE LETTER

This service bulletin does not replace any other service bulletin or service letters.

1.3. AIRWORTHINESS DIRECTIVE

This service bulletin is subject to an airworthiness directive.

1.4. REASON

Due to a wrong assembly, the flap lever screws may be subjected to unusual loads that introduces a potentially unsafe condition.

1.5. SUBJECT

Inspection and change of the flap lever screws.

1.6. COMPLIANCE

Screws installed on aircraft must be checked before next flight and must be changed within next 50 FH but no later than July 30th, 2023.

1.7. APPROVAL

This document has been produced by Issoire Aviation in accordance with EASA.AP081 procedures.

1.8. MASS AND BALANCE

No change of weight.

No change of moment of inertia.

1.9. ELECTRICAL LOAD

No change.

1.10. SOFTWARE MODIFICATION

No change.

1.11. REFERENCES

In addition to this technical information, please refer to the latest revisions of:

1.11.1. APM20 and APM30 (EASA.A.306 type)

- Illustrated Parts Catalog IPC-APM2030-2021-01, last edition
- Maintenance Manual MM-APM2030-2021-01, last edition

1.11.2. APM40 and APM41 (EASA.A.567 type)

- Illustrated Parts Catalog IPC-APM41-2018-01, Initial issue, dated July 2019
- Maintenance Manual MDE-APM41-2018-01, Initial issue, dated July 2019 or all further EASA approved version.
- Manuel de vol MDV-APM41-2018-01, Edition 0, Revision 0, dated July 2019 or all further EASA approved version.
- Maintenance Manual MDE-03, initial issue

Note: The latest revisions of the manuals are available on the Issoire Aviation website, [technical documentation section](#).

1.12. OTHER PUBLICATIONS AFFECTED

None.

1.13. INTERCHANGEABILITY

All screws removed must be marked as unserviceable and sent back to the following postal address:

*Issoire Aviation
Office of Airworthiness
Route de l'aérodrome
63500 ISSOIRE*

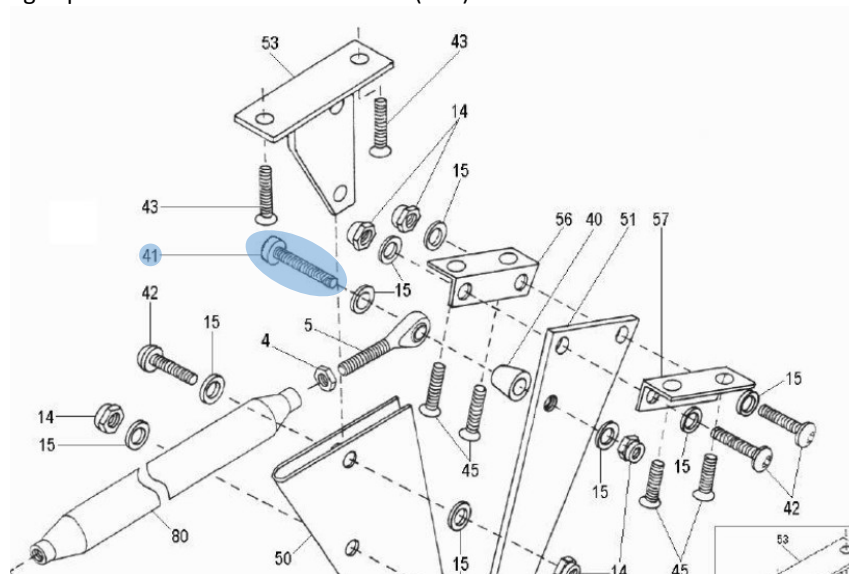
If possible, indicate by any mean the approximative FH of the part or the FH of the aircraft.

1.14. PARTS

The screws that need to be changed is available through Issoire Aviation's after-sales service.

Part number	Description
E27161 060 050 QVLE	VIS CHC 6 X 50 (2 per aircraft)

Part is visible on following exploded view extracted from IPC (#41):



1.15. TECHNICAL SUPPORT

No technical support is needed for the change of the screw.

1.16. TOOLING

Usual tooling for maintenance is needed:

- Allen wrench
- Calibrated torque wrench

1.17. COSTS

Delivery of spare screws is free of charge after receipt of dismantled original screws by Issoire Aviation. As screws are standard parts, no EASA F1 will be delivered with the new screws.

2 IMPLEMENTATION

Issoire Aviation reserves the right to make any changes to existing documents at the next time this service bulletin is revised or issued. Issoire Aviation cannot be held responsible in the event of damage to the aircraft in the event of improper application of this service bulletin.

Note: Ensure that the entire Service Bulletin is understood before implementation.

All measures shall be implemented on the aircraft by personnel holding the necessary qualifications and licenses.

DANGER: means that failure to comply with the instruction leads to a deterioration in safety.

Warning: means that failure to follow the instruction leads to a minor deterioration in safety.

Note: draws attention to any particular element not directly related to security but which is important or unusual

2.1. SCREWS INSTALLATION VISUAL CHECK BEFORE NEXT FLIGHT (LH AND RH SIDE)

- Perform a visual inspection to check if a free play exists between spacer #40 and flap lever #51:

2.1.1. If a free play exists

- Screws must be changed before next flight.

2.1.2. If no free play is identified

- Screws must be changed following paragraph 1.6.

2.2. SCREWS DISASSEMBLY

- Unscrew the lock nut #14.
- Unscrew the screw #41.
- Keep the two (2) washer #15 and spacer #40.

2.3. SCREWS ASSEMBLY

- Screw the new screw #41 in the flap lever #51 through the washer #15, the ball joint #5 and the spacer #40.

Note: the flap lever #51 is tapped. Check if any damage is visible on the tap. If damage is visible, change the flap lever

- Tighten the screw to 10 N.m with a torque wrench.
- Install and tighten the lock nut #14 and the washer #15 on the other side of the flap lever #51.

DANGER: Tightening of the screw #41 must be carried out by the screw head and with a torque wrench to a torque of 10 N.m (class 8.8, see tightening table in the maintenance manual). The low lock nut #14 (ref: E27421HM 060 BCL) must be approached and then tightened by holding the screw head in place with a wrench. Take care that the tightened stacking does not present any free play.