

AG-SB-2017-01-C-EN – Protection of the measuring lines of the shunts

Category C

EFFECTIVE DATE

20.02.2017

SUPERSEDES/REPLACES

N/A (initial issue)

APPLICABILITY

This Service Bulletin is applicable for following aircraft serial numbers, or in any Autogyro aircraft where a Dynon has been retrofitted:

Calidus F10C07

Cavalon V00001, V00003; V00009, V00022, V00062, V00065, V00096, V00115, V00119, V00148, V00149, V00171, V00181, V00190, V00199, V00207, V00241

COMPLIANCE

To be performed with the next maintenance.

BACKGROUND

It has been found that the two Dynon shunt current measuring lines require additional safety fuses (see Fig. 1).

RISK OF NEGLECT

Failure to comply with this instruction/information will result in:

- Possible damage to the aircraft
- Loss of related warranty.

SCOPE OF WORK

- Retrofitting of two additional fuses (In Wire fuse suitable for the cable cross-section).

AFFECTED AREAS

SPECIAL TOOLS & CONSUMABLE MATERIALS

n / a

PARTS

24-00-00-V-44243 (L1) Shunt wiring protection

LABOR AND REQUIREMENTS

To accomplish 0,1 h

Task may only be performed by an organization or individual trained and entitled to do 'Line Maintenance'!

SUPPORT POLICY

Parts are free of charge

REFERENCES

Manufacturer Maintenance Manual (MMM) in latest revision.

DOCUMENTATION

The accomplishment of this Service Bulletin, or the decision of its rejection, must be properly documented, if such procedure is required by the relevant authority.

Warnings Caution and Notes

This instruction uses **WARNINGS**, **CAUTIONS** and **NOTES** in bold italic letters to indicate especially critical and important instructions. The call-outs appear at the top of the Maintenance Job Card if of general nature or applicable for the complete task, or will directly precede the individual Work Step.

The meaning of each call-out is defined below:

WARNING: A warning means that the neglect of the appropriate procedure or condition could result in personal injury or fatal accidents.

CAUTION: A caution means that the neglect of the appropriate procedure or condition could result in damage to or destruction of equipment.

NOTE: A note stresses the attention for a special circumstance, which is essential to emphasize.

Category Codes

- A** Safety critical - failure to comply may result in a significant reduction of flight safety, injury or death
- B** Important - failure to comply may result in reduced safety margin, injury and/or equipment damage
- C** Beneficial - improves operating behaviour, reliability and/or maintainability

COMPLIANCE PROCEDURE

GENERAL, REFERENCES AND REQUIREMENTS

The task may only be performed by an organization or individual entitled and trained to do 'Line maintenance'.

Record that the task has been undertaken within the aircraft maintenance records.

Secure gyroplane against unauthorized or unintended operation.

Execute procedure only with a cold engine condition.

SPECIAL TOOLS, CONSUMABLE MATERIALS AND PARTS

SP **IMPORTANT NOTE:** Procedure involves spare parts. Check parts list below for ordering details of affected components!

24-00-00-V-44243 (L1) Shunt wiring protection

PRECAUTIONS AND SAFETY MEASURES

CAUTION: Failure to comply with this instruction will cause the loss of warranty!

PROCEDURES

- 1 Get access to the components by removing the engine cowlings, and inner firewall (Cavalon)
- 2 Disconnect the earth connection of the battery where convenient for access.
- 3 Disconnect both 0,35²mm cables from the shunt (see fig 1).
- 4 Remove the ring terminals from the cables, leaving a length of bared cable approx 5mm long.
- 5 Insert the bared cable into Article 44243, and crimp in place. Ensure that the crimps are secure, and then shrink the shrink sleeve with a hot-air gun.
- 6 Reattach the cables to the shunt, and tighten the nuts securely.
- 7 Reconnect the battery where disconnected.
- 8 Securely refit any removed access panels, firewall and cowlings.

PARTS LIST

Fig.	Pos.	Description	PC	PIT	Remark
2		Shunt wiring protection	1	44243	

ILLUSTRATIONS



Fig 1: Shunt, old installation



Fig 2: part no. 44243 - Shunt wiring protection



Fig 3: Shunt, new installation



Fig 4: Shunt, new Installation