

AG-SB-2016-02-C-EN – Installation of PPC Clamp Calidus

Category C

EFFECTIVE DATE

11.03.2016

SUPERSEDES/REPLACES

N/A (initial issue)

APPLICABILITY

Calidus

COMPLIANCE

To be performed with the next maintenance or at latest within the next 50 operating hours.

BACKGROUND

The PPC clamp contributes to a performance improvement and to a less vibration of the stick.

RISK OF NEGLECT

N/A

SCOPE OF WORK

- Installation of PPC clamp to the push-pull cable "pitch"

AFFECTED AREAS

N/A

SPECIAL TOOLS & CONSUMABLE MATERIALS

88-00-00-S-33589 (L1) Screw locking varnish green

PARTS

27-30-00-C-37944 (L2) PPC clamp

LABOR AND REQUIREMENTS

To accomplish 1 h

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

SUPPORT POLICY

N/A

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

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

Secure gyroplane against unauthorized or unintended operation.

Rotor must be removed, according to chapter 62-11-00 4-1.

Engine cowlings right must be removed, according to chapter 52-00-00 4-1.

SPECIAL TOOLS, CONSUMABLE MATERIALS AND PARTS

SP	IMPORTANT NOTE: Procedure involves spare parts. Check parts list below for ordering details of affected components!
88-00-00-S-33589	Screw locking varnish green

PRECAUTIONS AND SAFETY MEASURES

WARNING: Job includes work at critical flight controls. For this reason, duplicate inspection is required after completion!

CAUTION: Failure to comply with this instruction will cause the loss of warranty referred and/or related components!

PROCEDURES

- 1 Join the PPC clamp and PPC V-clamp with M5 bolts and serrated washer (Fig.1).
- 2 If necessary push aside disturbing lines and remove relevant cable ties to reach the middle radius of push-pull cable "pitch".
- 3 Attach the PPC clamp horizontally to the middle radius of the push-pull cable "pitch". Insert two M5 bolts and two serrated washers and torque-tighten bolts with 1.5 Nm (Fig.2).
- 4 Increase the torque value of PPC clamp in 0.1 Nm steps until you notice resistance peaks (chattering) in flight control.
- 5 Finally, decrease the torque value of PPC clamp in 0.1Nm steps until you notice a constant resistance (no chattering) in the stick.
- 6 Check the push-pull control cables according to chapter 67-00-00 6-1.
- 7 Secure bolts of PPC clamp with screw locking varnish (Fig.3).
- 8 Reposition pushed-aside lines from step 2 into original position and fix with cable ties.
- 9 Install engine cowlings right, according to chapter 52-00-00 4-1.
- 10 Install rotor, according to chapter 62-11-00 4-4.

PARTS LIST

Fig. Pos. Description	PC PIT	Remark
PPC Clamp	L2 27-30-00-C-37944	

ILLUSTRATIONS

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Fig.1 Joined PPC clamp and PPC V-clamp



Fig.2: Position of PPC clamp



Fig.3: Screw locking varnish