

CAP Aviation 9, rue de l'Aviation 21121 DAROIS - France Tel +33 380 35 65 10 Fax +33 380 35 65 15 www.capaviation.com	S E R V I C E B U L L E T I N	
NUMBER	TITLE	ATA SYSTEM
000107	Aluminium control rods	27

1. PLANNING INFORMATION

1.1 Approval

NOTA: This document is a courtesy translation of its original French version. Whereas the original French version of the information and instructions is approved, this *translation* is *not* approved.
As a consequence, the approval mentions below are to be understood as applicable to the *original French version* of this SB.

This Service Bulletin has been reviewed by the DGAC by the letter ref. GSAC2000170CA. The repairs and modifications herein comply with the FAR23 amendment 12 and are APPROVED for the installation in the CAP232.

This Service Bulletin relates to MINOR change 000107.

The technical information contained in revision 1 of this document is approved under the privileges of the Design Organisation Agreement Nr° F.JA.06.

Revision	Date	Description	Airworthiness Office Manager	Head of Design Organisation
			Recommendation for approval	Approval
1	21/11/2000	Service Bulletin format change. (To avoid ambiguity concerning effectivity).		

1.2 Effectivity

Aircraft : type	CAP232
Serial Nr	023 and previous ones

Spare parts with Serial Nr	N/A
Serial Nr	N/A

1.2.1 For information :

The change corresponding to this Service Bulletin has been implemented during serial manufacturing:

Aircraft : Type	CAP232
Serial Nr	024 and next ones

Spare parts with Serial Nr	N/A
Serial Nr	N/A

1.3 Implementation

	SERVICE BULLETIN	DELAI D'APPLICATION
	Optional	
	Recommended	
X	Mandatory	Within the next 100 flight hours after reception of this SB, or at the latest during the next maintenance operation.

1.4 Reason

- Improve the bonding reliability between rods tips and aluminium tubes.

Note :

The 8 pop rivets ensure the essential element of the tip-tube fixation.

The adhesive is used as a liquid adjusting element in this assembly.

1.5 Description

1.5.1 Repair

Forward the control rods 2713-9503018 and 2713-9503017 to the authorised manufacturer, CAP Industries, so that you receive in return repaired rods.

The adhesive Araldite 2011 will be replaced by the adhesive PENLOC GTI, by the authorised manufacturer.

1.5.2 New parts

Aluminium control rods to be delivered will be delivered with a PENLOC GTI bonding.

1.6 Manpower

1.6.1 Removal / Reassembly

The removal / reassembly instructions contained in the Service Bulletin can only be performed by the authorised manufacturer, by a workshop or an approved maintenance unit.

The lead time necessary to perform the removal / reassembly operations is about :

- 2 hours for one person
- 15 min. for the ailerons displacement verification for 2 persons

1.6.2 Repair

The control rods repair can only be operated by the authorised manufacturer.

1.7 Material

The new and modified parts make up the material, and are mentioned in the Chapter 10 of this Service Bulletin.

For civil customers, spare parts are to be supplied at ASCO Aviation Service Center. (Tel : +33 380 35 61 98, Fax : +33 380 35 60 58)

For American customers, spare parts are to be supplied at CAP Unlimited Aircraft Inc. (Tel : +904 437 1313, Fax : 904 437 1177)

For military customers, spare parts are to be ordered directly at CAP Aviation.

1.8 Tooling

Approved mechanics standard tooling, and :

- Flat screwdriver 6 mm
- Flat screwdriver 2 mm
- Flat spanner 7 and 10 mm, or 10 mm
- Flat spanner 6 or 10 mm
- Allen key 4 mm
- 2 Flat spanners 8 mm
- Flat screwdriver 16 mm
- Flat screwdriver 17 mm
- Vernier protractor

1.9 Weight and balance

1.9.1 Aircraft

None.

1.9.2 Engine

None.

1.9.3 Accessories or components for aircraft use

None.

1.10 References

None.

1.11 Affected publications

- Service Letter 990813 : User documents List

1.12 Feedback

Please do inform the Airworthiness Office of CAP Aviation, about the implementation of the instructions / the results of the inspections described herein.

You can use:

- postal mail : address on the first page of this Service Bulletin,
- fax : (+33) (0) 380 35 6515,
- e-mail : caroline.morel@capaviation.com,
- the web page of Cap Aviation : <http://www.capaviation.com>.

1.13 Appendices

- N/A

2. ACCOMPLISHMENT INSTRUCTIONS

2.1 Removal operations

- A. Remove the wing inspection panels
- B. Remove the belly fairing
- C. Unscrew the attack control rods attachment pin nuts
- D. Remove the attachment pins
- E. Remove the root stick stops (ailerons)
- F. Unscrew the control rods attachment pin nuts
- G. Remove the attachment pins
- H. Mark the locknuts location towards the ball bearing rod ends ref. PML6
- I. Remove the ball bearing rod end

2.2 Change operations

- A. Protect and pack the control rods
- B. Send the control rods for repair at :
 - CAP Industries
 - Eric WILLAERT
 - Aérodrome
 - BP 534
 - 27300 BERNAY
 - France
 - +33 (0)2 32 46 00 23
 - +33 (0)2 32 44 47 69
 - cap.industries@wanadoo.fr

2.3 Assembly operations

- A. Note : Adjust the control rods length in order to obtain the desired neutral position
- B. Assemble the ball bearing rod ends and the locknuts by respecting the marking
- C. Mount the control rods attachment pins
- D. Screw the attachment pin nuts
- E. Mount the root stick stops (ailerons)
- F. Mount the attack control rods attachment pins
- G. Screw the attachment pin nuts
- H. Put the belly fairing back in place

2.4 Controls

- A. Verify the ailerons displacement (Up : $30 \pm 2^\circ$; Down : $30 \pm 2^\circ$)
- B. In case of displacement control
 - Maintain the ailerons at the neutral position
 - Adjust the Vernier protractor at 0°
 - Push the stick full aileron
 - Adjust the screw to obtain a displacement :

Up :	$30 \pm 2^\circ$
Down :	$30 \pm 2^\circ$
 - Secure the set-nuts in position
- C. Put the wing inspection panels back in place

3. MATERIAL INFORMATION

New P/N.	Quantity	Unit list price	Key word	Old P/N.	Instructions
2713-9503018A	2 per aircraft	562.70 FHT	Control rod	2713-9503018	Non interchangeable
2713-9503017A	2 per aircraft	562.70 FHT	Control rod	2713-9503017	Non interchangeable

This table has no contract value. Prices are given for information only and can be modified without previous notice. For current prices, please contact ASCO Aviation Service Center.

Unit list price	Key word
540.00 FHT	Repair price for a control rods pair reference 2713-9503018 (forwarding charge in addition)
540.00 FHT	Repair price for a control rods pair reference 2713-9503017 (forwarding charge in addition)

This table has no contract value. Prices are given for information only and can be modified without previous notice. For current prices, please contact CAP Industries.