



APEX Aircraft Bureau de Navigabilité 1, route de Troyes 21121 DAROIS - France Tél +33 (0)380 35 65 10 Fax +33 (0)380 35 65 15 www.apex-aircraft.com	<h1>S E R V I C E B U L L E T I N</h1> <p>No. 040102</p>
CAP10B - FUEL - Front tank - Support strap	
ATA : 28	
Supersedes : N/A	

This document is a courtesy translation of its original French version.
 In case of any difficulty, reference should be made to the French original issue.

EFFECTIVITY

Models	Serial numbers affected
CAP10B	All

COMPLIANCE

MANDATORY

Is the subject of an airworthiness Directive (AD)

TIME OF COMPLIANCE

This service bulletin is applicable on receipt.

The front tank support straps must be replaced.

Straps with less than 4,000 flight hours: comply with life limit i.e. 4,000 flight hours.

Straps from 4,000 to 6,000 flight hours: 150 flight hours or 6 weeks from SB receipt, whichever comes first.

Straps with more than 6,000 flight hours: before June 15th, 2004.

REASON

The failure of a front tank support strap on a CAP10B led to an emergency landing ; the tank fell and blocked left rudder pedals in neutral position.

The metallurgic examination of the strap has shown that the failure was a fatigue failure. The tank support straps had 7,000 flight hours.

Maintenance schedule requires removal and inspection of supports straps every 2000 flight hours (or 4 years). Due to possible seriousness of the consequences compared to the low cost, it has been decided, after analysis, to set the tank support strap life limit to 4,000 flight hours.



AIM - DESCRIPTION

The aim of this SB is to make the replacement of the straps compulsory on the airplanes on which straps have exceeded the strap life limit.

This Service Bulletin

- informs the users about the life limit of the front tank support straps ;
- provides the users with temporary maintenance schedule updates.

APPROVAL

Inspection data described in the original French version of this Service bulletin are approved in accordance with CE 1702/2003 Regulation and are mandatory as stated in an EASA Airworthiness Directive.

MANPOWER

The instructions in this Service Bulletin are only to be implemented by an individual/organization authorized by the relevant supervisory Authority.

MATERIAL

Material (supplies) consist of old and/or new parts as listed in section 'MATERIAL INFORMATION' of this SB. Spare parts can be procured from APEX Aircraft [Fax: +33 380 35 60 58, E-mail : parts@apex-aircraft.com].

TOOLING

Standard tools.

PUBLICATIONS AFFECTED

- CAP10B Maintenance schedule : insert a copy of this Service bulletin until the next update.
- CAP10C Maintenance schedule : insert a copy of this Service bulletin until the next update.
- Service Letter 990813 SB/SL list: to update.

FEEDBACK

Please inform APEX Aircraft Airworthiness Office about the implementation of the inspection/change described in this Service Bulletin.

You may use:

- postal mail: address on the first page of this Service Bulletin,
- fax : (+33) (0) 380 356 515,
- e-mail: airworthiness@apex-aircraft.com,
- the APEX Aircraft web page: <http://www.apex-aircraft.com>.



LIFE LIMIT

The life limit of the CAP10B front tank support strap is 4,000 flight hours.

MAINTENANCE SCHEDULE

The temporary updates of maintenance schedules for CAP10B and CAP10C are in appendix. They must be inserted in the corresponding maintenance schedule until next update.

ACCOMPLISHMENT INSTRUCTIONS

- **Airplanes on which straps have exceeded the strap life limit (more than 4000 flight hours):**
The support straps must be replaced (refer to § TIME OF COMPLIANCE).
- **Airplanes on which straps have not yet reached the strap life limit (less than 4000 flight hours):**
Comply with the current maintenance schedule.

MATERIAL INFORMATION

Part number	Quantity	Key word	Instructions
CAP10-70-08-01	2	Front strap <i>Sangle AV</i>	

For information : the front tank support assembly CAP10-70-08-00 comprises in addition:

Part number	Quantity	Key word	Instructions
CAP10-70-08-02	2	Mounting plate forward <i>Contreplaque AV</i>	
L 22 125 – 50 – 60 30 BCL	4	Screw <i>Vis</i>	
CAP10-70-08-04	2	Rear mounting plate <i>Contreplaque AR</i>	
CAP10-70-08-03	2	Bracket <i>Barillet</i>	
L 23 116 – 50 DGA	4	Washer <i>Rondelle</i>	
L 23 111 – 50 DGA	4	Washer <i>Rondelle</i>	
5 TA 10 BE	8	Nut <i>Ecrou</i>	

Contact APEX Aircraft for current prices.



Designation	Make	Type	Maintenance		Storage		Reference document
			Limit	Action	Limit	Action	
ELT battery	EBC	00-22-006-1	Depend on date	VL			
Oil filter	Lycoming	LW-13215	50 h 4 months	VL			Textron Lycoming SB-480D
Electronic G-meter	M.E.V.	PGM1212					PGM1212 V3 operating handbook "Cycling check"
Internal battery			5 years	VL			
Clock battery			5 years	VL			
Front tank support strap			4000 flight hours	VL			SB 040102

3.2 Out of protocole

1) Section 6 is totally based on the manufacturer's documentation. Maintenance operations, issued from:

- regulations requirements (Airworthiness Directives (CN)...),
- aircraft customization (personal or due to SB modification, repair, optional or particular equipment installation...),

are not necessarily included. This section must list all these operations.

Subject	Operation	Origin	Periodicity	Tolerance	Reference document
Electronic G-meter M.E.V. PGM1212	Log of flight record on aircraft log book by a mechanic		Every 120 aerobatic flights	5 flights	
	Slight drifting check by "switch on" procedure	PGM1212 manual V3	Every annual inspection	2 months	PGM1212 V3 op. handbook "cycling check"
Tail wheel support	Dye check	SB nr 5 dtd Nov 17, 1977	Every two years		SB nr 5 rev. 1 dtd Sept 10, 1996
Sensenich propeller	Inspection	Sensenich Propeller Co.	Every 100 h and VA	10 h 2 months (VA)	SB nr R-15A Oct 4, 1989

2) CN management mode has to be specified ; Airworthiness Directives (CN) can be either:

- included in the maintenance program ;
- or
- listed in a particular Airworthiness Directives status document.



Designation	Make	Type	Maintenance		Storage		Reference document
			Limit	Action	Limit	Action	
ELT battery	EBC	00-22-006-1	Depend on date	VL			
Oil filter	Lycoming	LW-13215	50 h 4 months	VL			Textron Lycoming SB-480D
Electronic G-meter	M.E.V.	PGM1212					PGM1212 V3 operating handbook "Cycling check"
Internal battery			5 years	VL			
Clock battery			5 years	VL			
Front tank support strap			4000 flight hours	VL			SB 040102

3.2 Out of protocole

1) Section 6 is totally based on the manufacturer's documentation. Maintenance operations, issued from:

- regulations requirements (Airworthiness Directives (CN)...),
- aircraft customization (personal or due to SB modification, repair, optional or particular equipment installation...),

are not necessarily included. This section must list all these operations.

Subject	Operation	Origin	Periodicity	Tolerance	Reference document
Electronic G-meter M.E.V. PGM1212	Log of flight record on aircraft log book by a mechanic		Every 120 aerobatic flights	5 flights	
	Slight drifting check by "switch on" procedure	PGM1212 manual V3	Every annual inspection	2 months	PGM1212 V3 op. handbook "cycling check"

2) CN management mode has to be specified ; Airworthiness Directives (CN) can be either:

- included in the maintenance program ;
- or
- listed in a particular Airworthiness Directives status document.