



CANCELLED 21/05/2019

**REFER TYPE CERTIFICATE HOLDERS CURRENT
DATA**

GFA AIRWORTHINESS DIRECTIVE

TYPE AFFECTED: LS8, Version LS8a only, all serial numbers with English manuals.

SUBJECT: Amendment to Flight Manual.

BACKGROUND: A correction is required to the wing water tank filling sequence.

DOCUMENTATION: The attached Rolladen-Schneider Technical Bulletin No 8009 forms part of this AD.

ACTION REQUIRED: Exchange pages in the Flight Manual in accordance with the requirements of TB 8009.

WEIGHT AND BALANCE: Not affected.

IMPLEMENTATION: Before use of water ballast.

COMPLIANCE: The requirements of this GFA Airworthiness Directive are mandatory. This Directive is issued pursuant to the Rules and Regulations of the Gliding Federation of Australia.

SIGNED: Mike Valentine

for
CHIEF TECHNICAL OFFICER AIRWORTHINESS

For and on behalf of:

THE GLIDING FEDERATION
OF AUSTRALIA

Rolladen-Schneider Flugzeugbau GmbH LBA-No. EB-4 / I-B16	Technical Bulletin No. 8009	LS8-a	Page 1 of 1 Edition 31. May 2000
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Subject: Flight Manual in English language.

Effectivity: **LS8, Version LS8-a only, all serial numbers with Manuals in English language.**

Accomplishment: Before use of water ballast.

Reason: Correction of wing water tank filling sequence.

Material and Instructions: By the operator:
Exchange the following pages of Flight Manual against Edition
Oct. 1999: 0-2, 0-3, 4-9.

Weight and Balance: Not affected.

Remarks: Accomplishment by the Operator.

Accomplishment must be entered into page 14-1 TB-AD-Accomplishment List in Maintenance Manual by inspector during next annual inspection.

LBA-approved:



[Handwritten signature]

11. 07. 00

Prepared: 31. May 2000 <i>Gewerke</i>	Verified: <i>Wchapka</i>
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0.1 Log of Revisions

Any revision of the present manual, except actual weighing data, must be recorded in the following table and in case of approved Sections endorsed by the responsible airworthiness authority.

The new or amended text in the revised page will be indicated by a black vertical line in the left hand margin, and the revision No. and the date will be shown on the bottom left hand of the page.

[illegible]

Edition: Oct. 1999

Revision - 1

Page 0-2

Prepared: *Wolf Gierster*
26.06.00
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Verified: Whaples

Complies:

Seite 2 von 56

0.2 List of Effective Pages

Chapter	Page	Date	Chapter	Page	Date
0	Title page	April 1999	4	4-14	April 1999
	0-1	April 1999		4-15	April 1999
	0-2	Oct. 1999		4-16	April 1999
	0-3	Oct. 1999		4-17	April 1999
	0-4	April 1999			
1	1-1	April 1999	5	5-1	April 1999
	1-2	April 1999		5-2	April 1999
				5-3	April 1999
2	2-1	April 1999	6	6-1	April 1999
	2-2	April 1999		6-2	April 1999
	2-3	April 1999	7	7-1	April 1999
	2-4	April 1999		7-2	April 1999
	2-5	April 1999		7-3	April 1999
	2-6	April 1999		7-4	April 1999
	2-7	April 1999		7-5	April 1999
	2-8	April 1999		7-6	April 1999
3	3-1	April 1999		7-7	April 1999
	3-2	April 1999	8	8-1	April 1999
	3-3	April 1999		8-2	April 1999
	3-4	April 1999		8-3	April 1999
	3-5	April 1999		8-4	April 1999
	3-6	April 1999		8-5	April 1999
4	4-1	April 1999		8-6	April 1999
	4-2	April 1999	9	9-1	April 1999
	4-3	April 1999			
	4-4	April 1999			
	4-5	April 1999			
	4-6	April 1999			
	4-7	April 1999			
	4-8	April 1999			
	4-9	Oct. 1999			
	4-10	April 1999			
	4-11	April 1999			
	4-12	April 1999			
	4-13	April 1999			

Edition: Oct. 1999

Revision - 1

Page 0-3

Prepared: 31.05.00 <i>Hemke</i>	Verified: <i>Wagner</i>	Complies:
D:\GS\8A\fhbe-8a_012.doc /11:57		Seite 3 von 56

4.5.10 Water Ballast

- (a) Use clear water without any additives.
- (b) Increase tyre pressure to 4 bar < 58 psi>, when using full water ballast.
- (c) Wing integral tanks together hold about 190 Litres <50.2 US gallons, 41.8 Imp. gallons>.
- (d) Maximum permissible water ballast depends on loading conditions, see pages 4-11 ff.
- (e) Two tanks per wing.
- (f) Tail tank (3.8 to 5.5 Litres <1 to 1.5 US gallons, 0.84 to 1.21 Imp. gallons>) has 2 cockpit water ballast levers: the short one opens the outer wing tanks only, both levers open both tanks; the tail tanks always opens during operation of one of these levers.
or Tail integral tank (12 Litres <3.2 US gallons, 2.64 Imp. gallons>) has 1 cockpit water ballast lever operating all tanks simultaneously.

Important Note: When using water ballast, always fill inner wing tanks first, thereafter fill outer tanks with the remaining amount.
Inner tanks each carry about 65 Litres <17.2 US gallons, 14.3 Imp. gallons>;
outer tanks each carry about 30 Litres <7.9 US gallons, 6.6 Imp. gallons>.

- (g) Use as clean water as possible to avoid damage of sealing rings by foreign matter.
- (h) **Filling sequence:** always tail tank first, then wing tanks.

Warning: Wing water ballast always must be compensated by tail tank water according to table page 4-12.

4.5.10.1 Vertical Tail Fin Tank Loading Procedure

- (a) Open dump valves by shifting lever or levers in cockpit forward.
- (b) Insert tail fin tank adapter to filling funnel tube and connect to dumping outlet just inside lower right rudder cut-out, with rudder deflected to the left.
- (c) Fill tail fin tank via funnel in relation to intended wing water amount, see table page 4-12.
- (d) **Markings correspond to 0.5 Litres <0.13 US gallons, 0.11 Imp. gallons> steps, equivalent to 0.5 kg <1.1 lbs>.**
- (e) Use water level in funnel tube relative to markings on inside of translucent right rudder gap seal to determine correct amount in relation to wing amount. Specified amount of water must be verified under the following conditions:
 - 1. Wings level
 - 2. Landing gear and tail end on ground
 - 3. Filling tube near markings
- (f) Upper red marking corresponds to maximum amount of tail fin water ballast:
5,5 Litres <1.45 US gallons, 1.21 Imp. gallons>
3,8 to 4,1 Litres <1.00 to 1.08 US gal., 0.84 to 0.9 Imp.gal.> for the combination of tail fin tank with tail fin battery box
12 Litres <3.17 US gal., 2.64 Imp. gal.> for the integral tail fin tank.
- (g) The combination of battery and/or water cannot be chosen at will, because battery position was fixed during last C.G. weighing, see also entry on page 6-1/2.
- (h) Close dump valves by shifting single or double cockpit lever backward and remove funnel from tail. For filling of wing tanks, the cockpit levers must stay in the closed position.

Warning: Mandatory tail tank filling always exactly to markings under right rudder seal and filling tube water level in correct relation to total wing water amount according to table page 4-12. Otherwise, keeping to the maximum approved rear C.G. position cannot be guaranteed.

Warning: Filling funnel meshing is mandatory to guarantee tail fin tank valve function.

Edition: Oct. 1999

LBA-appr. Revision - 1

Page 4-9

Prepared: 31.05.00 <i>Hecker</i>	Verified: <i>Whapka</i>	Complies:
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Serial Number:

Reg. Signs:

Year of Manuf.:

TB LBA-AD	Components concerned	Date	Steps / Modification	1*	perio dical	Time Limit	Accomplishment Inspector
8001	Preparation for LS8- 18	12.06.96	Structural Modifications during Manufacture	X		opt.	
8002	Modification from LS8-a to LS8-18	11.03.99	Outer wingtips (only with TB 8001)	X		opt.	
8004 1999-268	Canopy jettison for 40 cm wide instrument panel	08.06.99	Installation of deflector 3R7-73	1*		Before next flight	
8005 2000-084	Wing air brake levers	14.09.99	Check for corrosion and jamming	X		Before next flight	
8006 / 2 2000-086	Additional draining of both outer wingtanks	21.10.99	Closing of tubes when malfunction occurs	X		From case to case only	
8007 2000-067	Flight and Maintenance Manuals LS8-a	25.11.99	LBA-approved manuals, Edition April 1999	X		Within 3 months	
8008	Maintenance Manual LS8-18 in English language	06.04.00	-----			-----	N/A
8009	Flight Manual LS8-a in English language	31.05.00	Correction of water tank filling sequence	X		Before use of water	

Erstellt: 27.06.00	Geprüft:	Complies:
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Serial Number: _____ | Reg. Signs: _____ | Year of Manuf.: _____

TB LBA-AD	Components concerned	Date	Steps / Modification	1*	perio dical	Time Limit	Accomplishment Inspector
<u>8001</u>	<i>Preparation for LS8- 18</i>	12.06.96	<i>Structural Modifications during Manufacture</i>	X		opt.	
<u>8002</u>	<i>Modification from LS8-a to LS8-18</i>	11.03.99	<i>Outer wingtips (only with TB8001)</i>	X		opt.	
<u>8004</u> 1999-268	<i>Canopy jettison for 40 cm wide instrument panel</i>	08.06.99	<i>Installation of deflector 3R7-73</i>	1*		<i>Before next flight</i>	
<u>8005</u> 2000-084	<i>Wing air brake levers</i>	14.09.99	<i>Check for corrosion and jamming</i>	X		<i>Before next flight</i>	
<u>8006 / 2</u> 2000-086	<i>Additional draining of both outer wingtanks</i>	21.10.99	<i>Closing of tubes</i>	X		<i>Before using water ballast</i>	
<u>8007</u> 2000-067	<i>Flight- and Maintenance Manuals LS8-a</i>	25.11.99	_____	0	0	_____	N/A
<u>8008</u>	<i>Maintenance Manual in English language</i>	06.04.00	<i>Revision 1</i>	1*		<i>Before next Annual</i>	
<u>8009</u>	<i>Flight Manual LS8-a in English language</i>	31.05.00	_____	0	0	_____	N/A

Erstellt: 27.06.00	Geprüft:	Complies:
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