

Rolladen-Schneider Flugzeugbau GmbH LBA-No. EB-4 / I-B16	Technical Bulletin No. 6038	LS6-c18 LS6-18w	Page 1 of 1 Edition 06.Jan.2000
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Subject: Maintenance Manual in English language (German language manuals are not affected).

Effectivity: **LS6, Versions LS6-c18 and LS6-18w only, all serial numbers with Manuals in English language.**

Accomplishment: Before next Annual Inspection or work at inner flaperons.

Reason: Maximum moment of inner flaperon 10.18 kgcm <141.37 inoz> corresponded still to LS6-c value, corrected to 9.00 kgcm <124.99 inoz>.

Material and Instructions: By the operator:
Exchange pages 0-2, 0-3 and 6-1 of Maintenance Manual against Edition Jan. 06, 2000.

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:


2 1. 02. 00



Prepared: 7. January 2000 <i>Heucke</i>	Verified: <i>Wagner</i>
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0.1 Log of Revisions

Revision No.	Pages affected	Description	LBA-approval signature	Date
1	0-2, 0-3, 6-1	Maximum moment value of inner flaperon corrected		21.02.00

LS6-c18 Manuals can be ordered from:

Rolladen-Schneider
Flugzeugbau GmbH
Mühlstrasse 10
D-63329 Egelsbach
Germany

0.2 Pages Included

0-1	Mar. 30, 1994	8-1	Mar. 30, 1994
0-2	Jan. 06, 2000	8-2	Mar. 30, 1994
0-3	Jan. 06, 2000		
0-4	Mar. 30, 1994	9-1	Mar. 30, 1994
0-5	Mar. 30, 1994		
		10-1	Mar. 30, 1994
1-1	Mar. 30, 1994	10-2	Mar. 30, 1994
1-2	Mar. 30, 1994	10-3	Mar. 30, 1994
1-3	Mar. 30, 1994		
1-4	Mar. 30, 1994	11-1	Mar. 30, 1994
1-5	Mar. 30, 1994	11-2	Mar. 30, 1994
1-6	Mar. 30, 1994		
1-7	Mar. 30, 1994	12-1	Mar. 30, 1994
1-8	Mar. 30, 1994	12-2	Mar. 30, 1994
1-9	Mar. 30, 1994	12-3	Mar. 30, 1994
		12-4	Mar. 30, 1994
		12-5	Mar. 30, 1994
2-1	Mar. 30, 1994		
2-2	Mar. 30, 1994	13-1	Mar. 30, 1994
2-3	Mar. 30, 1994	13-2	Mar. 30, 1994
2-4	Mar. 30, 1994		
2-5	Mar. 30, 1994	14-1	Mar. 30, 1994
2-6	Mar. 30, 1994	14-1a	Mar. 30, 1994
2-7	Mar. 30, 1994	14-2	Mar. 30, 1994
2-8	Mar. 30, 1994	14-3	Mar. 30, 1994
2-9	Mar. 30, 1994	14-4	Mar. 30, 1994
		14-5	Mar. 30, 1994
3-1	Mar. 30, 1994	14-6	Mar. 30, 1994
3-2	Mar. 30, 1994	14-7	Mar. 30, 1994
3-3	Mar. 30, 1994	14-8	Mar. 30, 1994
3-4	Mar. 30, 1994	14-9	Mar. 30, 1994
		14-10	Mar. 30, 1994
4-1	Mar. 30, 1994	14-11	Mar. 30, 1994
4-2	Mar. 30, 1994	14-12	Mar. 30, 1994
4-3	Mar. 30, 1994		
4-4	Mar. 30, 1994		
4-5	Mar. 30, 1994		
4-6	Mar. 30, 1994	15-1	Mar. 30, 1994
4-7	Mar. 30, 1994		
4-8	Mar. 30, 1994		
4-9	Mar. 30, 1994		
4-10	Mar. 30, 1994		
4-11	Mar. 30, 1994		
5-1	Mar. 30, 1994		
5-2	Mar. 30, 1994		
5-3	Mar. 30, 1994		
6-1	Jan. 06, 2000		
6-2	Mar. 30, 1994		
6-3	Mar. 30, 1994		
6-4	Mar. 30, 1994		
6-5	Mar. 30, 1994		

6.1 Flight Control Travel Limits

Elevator: Up 25° to 30°
Down 22° to 26°

Rudder: To both sides 26° to 28°

Aileron: with flap position -5:
Up -18° to -22°
Down 5° to 10°

Flap: with aileron in neutral position:
at flap position "L" 13° to 15°
"10" 8° to 10°
"5" 3° to 5°
"0" -2° to 0°
"-5" -5° to -3°

Air Brake: with flap at high speed
stop between flap
positions "0" and "5": minimum average 120 mm [4.72 in]
with flap position "L": minimum average 150 mm [5.91 in]

For easier checking, measured angles may be converted to mm/in deflection values, using the actual local radius of the defined measuring place. See also table page 6-3 or deflections report of final production inspection.

6.2 Control Surface Weight and Mass Balance

(Should be inspected when suspecting changes of mass / weight and after repairs)



Weight and mass balance should be within given limits for safety against flutter.

	Mass/Weight	Hor. Ref. Line	Hinge Moment <u>Serial No.:</u>
Elevator <*>	1.00 to 1.60 kg 2.21 to 3.53 lbs	Straight region of upper side	
Rudder	3.00 to 6.80 kg 6.61 to 14.99 lbs	Centerline of section	0 to 8.20 kgcm 0 to 113.88 in oz
Inner Flaperon	2.14 to 2.74 kg 4.72 to 6.04 lbs	Leading and trailing edges of under side connected	8.06 to 9.00 kgcm 111.93 to 124.99 in oz
Middle Flaperon incl. connecting pins	1.19 to 1.53 kg 2.62 to 3.37 lbs		3.60 to 4.75 kgcm 49.99 to 65.97 in oz
18m Flaperon including connecting pins	0.34 to 0.50 kg 0.75 to 1.10 lbs		0.51 to 1.00 kgcm 7.08 to 13.89 in oz

<*> Elevator hinge moment limits are not absolutely fixed, they are determined during final production inspection and then entered.

Details for measuring technique of hinge moment and repairs see page 6-2 !

0.1 Log of Revisions

Revision No.	Pages affected	Description	LBA-approval signature	Date
1	0-2, 0-3, 6-1	Maximum moment value of inner flaperon corrected	 	21.02.00

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0.2 Pages Included

0-1	Mar. 30, 1994	8-1	Mar. 30, 1994
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0-3	Jan. 06, 2000		
0-4	Mar. 30, 1994	9-1	Mar. 30, 1994
0-5	Mar. 30, 1994		
		10-1	Mar. 30, 1994
1-1	Mar. 30, 1994	10-2	Mar. 30, 1994
1-2	Mar. 30, 1994	10-3	Mar. 30, 1994
1-3	Mar. 30, 1994		
1-4	Mar. 30, 1994	11-1	Mar. 30, 1994
1-5	Mar. 30, 1994	11-2	Mar. 30, 1994
1-6	Mar. 30, 1994		
1-7	Mar. 30, 1994	12-1	Mar. 30, 1994
1-8	Mar. 30, 1994	12-2	Mar. 30, 1994
1-9	Mar. 30, 1994	12-3	Mar. 30, 1994
		12-4	Mar. 30, 1994
		12-5	Mar. 30, 1994
2-1	Mar. 30, 1994		
2-2	Mar. 30, 1994	13-1	Mar. 30, 1994
2-3	Mar. 30, 1994	13-2	Mar. 30, 1994
2-4	Mar. 30, 1994		
2-5	Mar. 30, 1994	14-1	Mar. 30, 1994
2-6	Mar. 30, 1994	14-1a	Mar. 30, 1994
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3-4	Mar. 30, 1994	14-9	Mar. 30, 1994
		14-10	Mar. 30, 1994
4-1	Mar. 30, 1994	14-11	Mar. 30, 1994
4-2	Mar. 30, 1994	14-12	Mar. 30, 1994
4-3	Mar. 30, 1994	14-13	Mar. 30, 1994
4-4	Mar. 30, 1994		
4-5	Mar. 30, 1994	15-1	Mar. 30, 1994
4-6	Mar. 30, 1994		
4-7	Mar. 30, 1994		
4-8	Mar. 30, 1994		
4-9	Mar. 30, 1994		
4-10	Mar. 30, 1994		
4-11	Mar. 30, 1994		
5-1	Mar. 30, 1994		
5-2	Mar. 30, 1994		
5-3	Mar. 30, 1994		
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6-2	Mar. 30, 1994		
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