

Maintenance Manual LS8

0 General

0.1 Manual amendments

No	Page	Description	Date
0.1	all	Combination of the initial Maintenance Manuals of the Variants LS8, LS8-a, LS8-b, LS8-18, new standardized format	Dec. 2009
0.2	0-9, 1-15, 1-16, 2-3, 2-5, 3-2, 3-3, 3-6, 4-12, 4-13, 4-15 up to 4-17, 5-2, 5-3, 5.4, 6-1, 9-1 up to 9-4, 10-1 up to 10-3, 11-1, 11-2, 12-2, 12-3	Miscellaneous changes to the contents of the latest amendments of the initial maintenance manuals	Dec. 2009
1	0-1, 0-3, 0-5, 1-1, 1-6, 1-10, 7-5, 7-6	TN8019, wheel brake actuated by airbrake handle.	Feb. 2011
2	0-1, 0-3, 0-5, 1-11, 7-1, 7-2, 7-4, 8-3 and 12-1	TN8020, retrofit of a 5" landing gear	Sept. 2011
3	0-1, 0-3, 0-5, 7-1 ÷ 7-4	TN 8021 Small tailwheel	January 2015

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0.2 List of effective pages

Section	page	issued	replaced	replaced	replaced
0	0-0	December 09			
	0-1	See manual amendments			
	0-2	See manual amendments			
	0-3	See manual amendments			
	0-4	See manual amendments			
	0-5	See manual amendments			
	0-6	December 09			
	0-7	"			
	0-8	"			
	0-9	"			
1	1-1	December 09	Feb. 2011		
	1-2	"			
	1-3	"			
	1-4	"			
	1-5	"			
	1-6	"	Feb. 2011		
	1-7	"			
	1-8	"			
	1-9	"			
	1-10	"	Feb. 2011		
	1-11	"	Sept. 2011		
	1-12	"			
	1-13	"			
	1-14	"			
	1-15	"			
	1-16	"			
	1-17	"			
	1-18	"			
	1-19	"			
2	2-1	December 09			
	2-2	"			
	2-3	"			
	2-4	"			
	2-5	"			
	2-6	"			
	2-7	"			
	2-8	"			
	2-9	"			
	2-10	"			
	2-11	"			

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0.2 List of effective pages (continued)

Section	page	issued	replaced	replaced	replaced
5	5-1	December 09			
	5-2	"			
	5-3	"			
	5-4	"			
	5-5	"			
	5-6	"			
	5-7	"			
6	6-1	December 09			
7	7-1	"	Sept. 2011	Jan. 2015	
	7-2	"	Sept. 2011	Jan. 2015	
	7-3	"	Jan. 2015		
	7-4	"	Sept. 2011	Jan. 2015	
	7-5	"	Feb. 2011		
	7-6	"	Feb. 2011		
8	8-1	December 09			
	8-2	"			
	8-3	"	Sept. 2011		
9	9-1	December 09			
	9-2	"			
	9-3	"			
	9-4	"			
10	10-1	December 09			
	10-2	"			
	10-3	"			
11	11-1	December 09			
	11-2	"			
	11-3	"			
12	12-1	December 09	Sept. 2011		
	12-2	"			
	12-3	"			
	12-4	"			

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7 Placards and markings

Numbers refer to placards, for positions of placards see drawings

7.1 LS8

LS 8 Checklist

This sailplane must be operated in compliance with operating limitations stated in the form of markings, placards and Flight Manual.

1. Main pins secured ?
2. Horizontal tail secured ?
3. Winglets secured ?
4. Test controls ?
5. Tail fin valve operating checked ?
6. When water ballast, then always in wings and tail tank !
7. Check loading conditions
8. Check tail dolly removed
9. Fasten seat belt harness
10. Connect parachute static line
11. Lock air brakes
12. Check trim position
13. Check release system
14. Lock canopy

>1< at under side of instrument panel

Tyre Pressure
3 - 3.5 bar
43.5 to 50.8 psi

For 4" wheel, on right landing gear door

Tyre Pressure
3.5 bar
50.8 psi

For 5" wheel, on right landing gear door

Tyre Pressure
2.5 - 3.5 bar
36.3 to 50.8 psi

Above tail wheel, when fitted

Tyre Pressure
6,2 bar/90 psi

above tailwheel
small tailwheel according to TN 8021, if installed

Maximum Baggage mass 5 kg / 11 lbs
(Soft items only)

at main bulkhead

DG Flugzeugbau GmbH

TYPE LS 8

TCDS A.047

Serial No. 8xxx Made in

Registration D-xxxx Germany

>4< Type placard at main bulkhead

MINIMUM COCKPIT LOAD : _____ kg / lbs
Minimum Cockpit Load with empty tail tank: _____ kg/lbs

>2< under instrument panel cover

DG Flugzeugbau GmbH

Type: **LS 8** Serial Number: **8** _____

Data Placard

Airspeed Limits (IAS)	km/h	mph	Kt.
Winch Launch / Auto-Tow	140	87	76
Aerotow	190	118	103
In Rough Air	190	118	103
Never exceed (VNE)	280	174	151

Maximum Take-off Mass 525 kg (1157 lbs) including Water Ballast

Aerobatic manoeuvres not approved

mass Limitations

Maximum Cockpit Load _____ kg _____ lbs

Minimum Cockpit Load _____ kg _____ lbs

Minimum Cockpit Load with tail fin tank empty _____ kg _____ lbs

and without tail battery _____ kg _____ lbs

Minimum Cockpit Loads for all combinations of tail tank and tail battery see Flight Manual pages 6-1/2. Lighter pilots must compensate lack of mass as suggested in Flight Manual

>3< at right cockpit side

Ball of bearing
Must be fixed

at forward horizontal tail attachment on vertical tail fin

Batt. I
Batt. II
OFF

Electrical switch positions

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7.2 LS8-a

LS 8-a Checklist

This sailplane must be operated in compliance with operating limitations stated in the form of markings, placards and Flight Manual.

1. Main pins secured ?
2. Horizontal tail secured ?
3. Winglets secured ?
4. Test controls ?
5. Tail fin valve operating checked ?
6. When water ballast, then always in wings and tail tank !
7. Check loading conditions
8. Check tail dolly removed
9. Fasten seat belt harness
10. Connect parachute static line
11. Lock air brakes
12. Check trim position
13. Check release system
14. Lock canopy

>1< at under side of instrument panel

Tyre Pressure
3 - 3.5 bar
43.5 to 50.8 psi

For 4" wheel, on right landing gear door

Tyre Pressure
3.5 bar
50.8 psi

For 5" wheel, on right landing gear door

Tyre Pressure
2.5 - 3.5 bar
36.3 to 50.8 psi

Above tail wheel, when fitted

Tyre Pressure
6,2 bar/90 psi

above tailwheel
small tailwheel according to TN 8021, if installed

Maximum Baggage mass 5 kg / 11 lbs
(Soft items only)

at main bulkhead

ROLLADEN-SCHNEIDER Flugzeugbau GmbH	
<i>TYPE</i>	LS 8-a _____.
<i>TCDS</i>	402 _____.
<i>Serial No.</i>	8xxx _____.
<i>Registration</i>	D-xxxx _____.
	Made in Germany

>4< Type placard at main bulkhead

MINIMUM COCKPIT LOAD : _____ kg / lbs
Minimum Cockpit Load with empty tail tank: _____ kg/lbs

>2< under instrument panel cover

Rolladen-SchneiderFlugzeugbau GmbH
Type: **LS 8-a** Serial Number: **8** _____

Data Placard

Airspeed Limits (IAS)	km/h	mph	Kt.
Winch Launch / Auto-Tow	140	87	76
Aerotow	190	118	103
In Rough Air	190	118	103
Never exceed (VNE)	280	174	151

Maximum Take-off Mass 525 kg (1157 lbs) including Water Ballast

Aerobatic manoeuvres not approved

mass Limitations

Maximum Cockpit Load _____ kg _____ lbs
Minimum Cockpit Load _____ kg _____ lbs
Minimum Cockpit Load with tail fin tank empty _____ kg _____ lbs
and without tail battery _____ kg _____ lbs

Minimum Cockpit Loads for all combinations of tail tank and tail battery see Flight Manual pages 6-1/2. Lighter pilots must compensate lack of mass as suggested in Flight Manual

>3< at right cockpit side

Ball of bearing
Must be fixed

at forward horizontal tail attachment on vertical tail fin

Batt. I
Batt. II
OFF

Electrical switch positions

Maintenance Manual LS8

7.3 LS8-b

LS 8-b Checklist

This sailplane must be operated in compliance with operating limitations stated in the form of markings, placards and Flight Manual.

1. Main pins secured ?
2. Horizontal tail secured ?
3. Winglets secured ?
4. Test controls ?
5. Tail fin valve operating checked ?
6. When water ballast, then always in wings and tail tank !
7. Check loading conditions
8. Check tail dolly removed
9. Fasten seat belt harness
10. Connect parachute static line
11. Lock air brakes
12. Check trim position
13. Check release system
14. Lock canopy

>1< at under side of instrument panel

Tyre Pressure
3 - 3.5 bar
43.5 to 50.8 psi

on right
landing gear door

Tyre Pressure
2.5 - 3.5 bar
36.3 to 50.8 psi

Above tail wheel,
when fitted

Tyre Pressure
6,2 bar/90 psi

above tailwheel
small tailwheel according to 8021, if installed

Maximum Baggage mass 5 kg / 11 lbs
(Soft items only)

at main bulkhead

ROLLADEN-SCHNEIDER Flugzeugbau GmbH

TYPE	LS 8-b _____.	
TCDS	402 _____.	
Serial No.	8xxx _____.	Made in
Registration	D-xxxx _____.	Germany

>4< Type placard at main bulkhead

MINIMUM COCKPIT LOAD : _____ kg / lbs
Minimum Cockpit Load with empty tail tank: _____ kg/lbs

>2< under instrument panel cover

Rolladen-SchneiderFlugzeugbau GmbH

Type: **LS 8-b** Serial Number: **8** _____

Data Placard

Airspeed Limits (IAS)	km/h	mph	Kt.
Winch Launch / Auto-Tow	140	87	76
Aerotow	190	118	103
In Rough Air	190	118	103
Never exceed (VNE)	280	174	151

Maximum Take-off Mass 525 kg (1157 lbs) including
Water Ballast

Aerobatic manoeuvres not approved

mass Limitations

Maximum Cockpit Load _____ kg _____ lbs

Minimum Cockpit Load _____ kg _____ lbs

Minimum Cockpit Load with
tail fin tank empty

and without tail battery _____ kg _____ lbs

Minimum Cockpit Loads for all combinations of tail
tank and tail battery see Flight Manual pages 6-1/2.

Lighter pilots must compensate lack of mass
as suggested in Flight Manual

>3< at right cockpit side

Ball of bearing
Must be fixed

at forward horizontal tail
attachment on vertical tail fin

Batt. I Electrical switch
Batt. II positions
OFF

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7.4 LS8-18

LS 8-18 Checklist

This sailplane must be operated in compliance with operating limitations stated in the form of markings, placards and Flight Manual.

1. Main pins secured ?
2. Horizontal tail secured ?
3. Winglets secured ?
4. Test controls ?
5. Tail fin valve operating checked ?
6. When water ballast, then always in wings and tail tank !
7. Check loading conditions
8. Check tail dolly removed
9. Fasten seat belt harness
10. Connect parachute static line
11. Lock air brakes
12. Check trim position
13. Check release system
14. Lock canopy

>1< at under side of instrument panel

Tyre Pressure For 4" wheel, on right landing gear door
3 - 3.5 bar
43.5 to 50.8 psi

Tyre Pressure For 5" wheel, on right landing gear door
3.5 bar
50.8 psi

Tyre Pressure Above tail wheel, when fitted
2.5 - 3.5 bar
36.3 to 50.8 psi

Tyre Pressure above tailwheel
6,2 bar/90 psi small tailwheel according to TN 8021, if installed

Maximum Baggage mass 5 kg / 11 lbs at main bulkhead
(Soft items only)

ROLLADEN-SCHNEIDER Flugzeugbau GmbH			
<i>TYPE</i>	LS 8-18		
<i>TCDS</i>	402		
<i>Serial No.</i>	8xxx	Made in	
<i>Registration</i>	D-xxxx	Germany	

>4< Type placard at main bulkhead

MINIMUM COCKPIT LOAD : _____ kg / lbs
Minimum Cockpit Load with empty tail tank: _____ kg/lbs
>2< under instrument panel cover

Rolladen-SchneiderFlugzeugbau GmbH
Type: **LS 8-18** Serial Number: **8** _____

Data Placard

Airspeed Limits (IAS)	km/h	mph	Kt.
Winch Launch / Auto-Tow	140	87	76
Aerotow	190	118	103
In Rough Air	190	118	103
Never exceed (VNE)	280	174	151

Maximum Take-off Mass 525 kg (1157 lbs) including Water Ballast
Aerobatic manoeuvres not approved

mass Limitations

Maximum Cockpit Load _____ kg _____ lbs
Minimum Cockpit Load _____ kg _____ lbs
Minimum Cockpit Load with tail fin tank empty
and without tail battery _____ kg _____ lbs

Minimum Cockpit Loads for all combinations of tail tank and tail battery see Flight Manual pages 6-1/2.
Lighter pilots must compensate lack of mass as suggested in Flight Manual

>3< at right cockpit side

Ball of bearing at forward horizontal tail
Must be fixed attachment on vertical tail fin

Batt. I Electrical switch
Batt. II positions
OFF