0 Manual Contents

0.1 Log of Revisions

Rev no.	Pages	Reference	Rev. date
1	0-1, 0-3, 0-4, 0-5, 0-6, 0-8, 0-11, 1-27, 3-4, 4-16, 4-19, 4-21, 10-2, 10-8, 11-2, 11-18, 11-20	TN 8017, necessary changes to the power plant	Nov. 2010
2	0-1, 0-3, 0-7, 1-1, 1-7, 1-11, 1-12, 8-3	TN8019, wheel brake actuated by airbrake handle.	Feb. 2011
3	Title page, 0-1, 0-3, 0-4, 0-6 ÷ 0-8, 0-11, 1-3, 1-7 ÷ 1-9, 1-22, 1-29, 1-36, 1-40, 1-48a, 4-1, 4-21, 4-27, 6-4, 10-2a, 11-15, 9E2	ÄM LS8-1, Miscellaneous improvements Ser.no. 8474 and from ser. No. 8527 on	December 2011
4	0-1, 0-3, 0-7, 1-17, 8-1	TN 8021 Small tailwheel	January 2015

0.2 List of Effective Pages

Chapter	Page	Edition	Replaced	Replaced	Replaced
0	Title page	April 2005	Dec. 2011		
	0-1	See log of revisions			
	0-2	See log of revisions			
	0-3	See log of revisions			
	0-4	See log of revisions			
	0-5	See log of revisions			
	0-6	See log of revisions			
	0-7	See log of revisions			
	0-8	See log of revisions			
	0-9	April 2005			
	0-10	April 2005			
	0-11	April 2005	Nov. 2010	Dec. 2011	
	0-12	April 2005			
	0-13	April 2005			
1	1-1	April 2005	Feb. 2011		
	1-2	April 2005			
	1-3	April 2005	Dec. 2011		
	1-4	April 2005			
	1-5	April 2005			
	1-6	April 2005			
	1-7	April 2005	Feb. 2011	Dec. 2011	
	1-8	April 2005	Dec. 2011		
	1-9	April 2005	Dec. 2011		
	1-10	April 2005			
	1-11	April 2005	Feb. 2011		
	1-12	April 2005	Feb. 2011		
	1-13	April 2005			
	1-14	April 2005			
	1-15	April 2005			
	1-16	April 2005			
	1-17	April 2005	Jan. 2015		
	1-18	April 2005			
	1-19	April 2005			
	1-20	April 2005			

0.2 List of Effective Pages (continued)

Chapter	Page	Edition	Replaced	Replaced	Replaced
5	5-1	April 2005			
	5-2	April 2005			
	5-3	April 2005			
	5-4	April 2005			
	5-5	April 2005			
	5-6	April 2005			
	5-7	April 2005			
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	5-9	April 2005			
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	5-11	April 2005			
	5-12	April 2005			
	5-13	April 2005			
	5-14	April 2005			
	5-15	April 2005			
	5-16	April 2005			
	5-17	April 2005			
	5-18	April 2005			
6	6-1	April 2005			
	6-2	April 2005			
	6-3	April 2005			
	6-4	April 2005	Dec. 2011		
7	7-1	April 2005			
8	8-1	April 2005	Jan. 2015		
	8-2	April 2005			
	8-3	April 2005	Feb. 2011		
9	9-1	April 2005			
	9-2	April 2005			
	9-3	April 2005			

1. SYSTEM DESCRIPTION AND ADJUSTMENT DATA (continued)

1.6 Landing Gear System (continued)

1.6.4 Play

Play between outer drive (6) and inner drive (8) occurs as a result of overload and is not permitted. Deformations in this region can only be verified with items (6) and (8) taken out and cannot be compensated by adjustments. In this case both parts must be exchanged together because of being drilled in a jig as a pair and fitted together.

1.6.5 Tyre Pressures

Main wheel (5“-wheel)	3,5 bar / 51 psi
Main wheel (4“-wheel)	3,5 bar / 51 psi (without water ballast) 4,0 bar /58 psi (with water ballast)
Tail wheel (Option)	2,5-3,5 bar / 36 – 51 psi
Tail wheel (Option small tailwheel according to TN 8021)	6.2 bar / 90 psi

8. Markings and Placards

LS8-st Checklist

This powered 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
15. Propulsion system ready for use ?
16. Sufficient amount of fuel ?
17. Propulsion system retracted?

At underside of instrument panel

MINIMUM COCKPIT LOAD :_____kg / *lbs*
Minimum Cockpit Load with empty tail tank:____kg/*lbs*
Valid for equipment configuration according to Flight Manual chapter 6.

Under instrument panel cover

DG-Flugzeubau GmbH
Type: **LS8-t** Serial Number: **8**xxx

Data Placard

Airspeed Limits (IAS)	km/h	mph	Kt.
Winch Launch / Auto-Tow	140	87	76
Aero tow	195	121	105
In Rough Air	195	121	105
Never exceed (VNE)	280	174	151
Extend/retract engine	110	68	59
Engine extended	160	99	86

Max. Take-off Mass 15m span 525 kg (1157 lbs)
4" main wheel, 18m span 525 kg (1157 lbs)
5" main wheel, 18m span 575 kg (1268 lbs)
Aerobatic manoeuvres **not** approved
Take-off under own power **not** approved

Weight 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
Valid for Equipment Condition according to Flight Manual chapter 6.
Lighter pilots must compensate lack of weight

At right cockpit side

Tyre pressure 3.5 bar (51 psi) — on right landing gear door

Tyre pressure 2.5 - 3.5 bar (36 to 51 psi) — above tail wheel, when fitted

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

at Baggage Compartment

Maximum Baggage weight 5 kg (11 lbs) (For soft items only)

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

DG-Flugzeugbau GmbH
TYPE LS8-t .
TCDS- No. 902 .
Serial Number 8xxx .
Reg. Signs D-xxxx .

Type placard at main bulkhead

CLOSED ◄ Fuel Cock **► OPEN**
Right Cockpit side at fuel cock

OPEN ◄ Deco **► CLOSED**
Left Cockpit side at Deco-lever

Refueling pump — at instrument panel