

0 General**0.1 Manual amendments**

No.	Page	Description	Date
1	0.5, 0.6, 4.14-4.16 diagrams 7, 11, 12	Manual revision TN 413/2	September 2003
2	0.6, diagrams 1 and 11	Manual revision TN 413/3	May 2994

0.2 List of effective pages (continued)

diagram	issued	replaced/	replaced/	replaced/
1	Nov. 2001	May 2004		
2	Nov. 2001			
3	Nov. 2001			
4	Nov. 2001			
5	Nov. 2001			
6	Nov. 2001			
7	Nov. 2001	Sept. 2003		
8	Nov. 2001			
9	Nov. 2001			
10	Nov. 2001			
11	Nov. 2001	Sept. 2003	May 2004	
12	Nov. 2001	Sept. 2003		
5EP34	25.01.90			
5EP50	17.12.98			
5V18	14.10.94			
10FW2	5.10.99			

Höhensteuerung elevator control DG-1000S

A=Entlastungsgummizug
rubbercord for pilotforce reduction

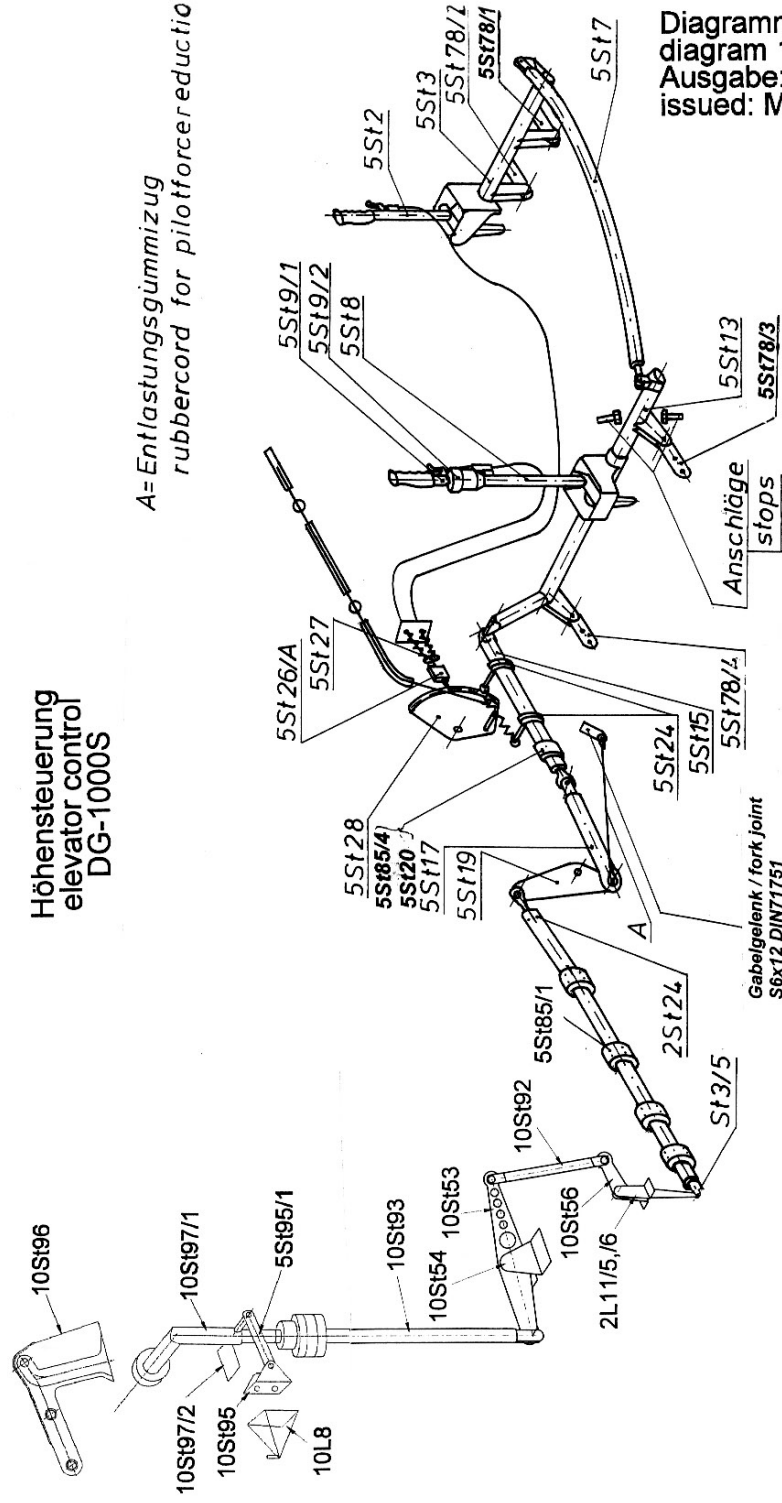


Diagramm 1
diagram 1
Ausgabe: Mai 2004
issued: May 2004

placards DG-1000S

DG Flugzeugbau GmbH
Type: DG - 1000S Serial No.: 10- S
Vmax: 150 km/h
Maximum airspeed

km/h	mph
150	81
185	100
185	100
185	100
185	100

Which launching
Aero-low
Manoeuvring Va
Rough air speed Vc
Approved aerobatic manoeuvres, only without waterballast:
Pos. Loop, Chandelle, Spin, Stall turn

In addition Category A:
Only with 18 m span without waterballast:
Half loop and half roll, half roll and half loop, slow roll, inverted flight, half positive flick, roll from normal flight with half loop, half negative flick, roll from inverted flight

Category	Weight (kg)	Weight (lbs)
Category A	630	1389
Category U with fixed main wheel	750	1653
Category U without waterballast		

Loading chart

front seat	rear seat	Parachute (included)
110 kg	90 kg	1198 lbs.
105 kg	231 lbs.	231 lbs.
105 kg	231 lbs.	231 lbs.
105 kg	231 lbs.	231 lbs.
105 kg	231 lbs.	231 lbs.

With lower pilot weight necessary ballast must be added.

limits for use of the waterballast tank

Altitude in (m)	Altitude in (ft)	V _{st} AS (km/h)	V _{st} AS (kts)
0-3000	4000	5000	8000
13.5	17	24	31
35	45	24	31
55	75	24	31
80	100	24	31
100	13000	24	31
13000	16500	24	31
20000	23000	217	26000
146	131	124	117

Cockpit Check

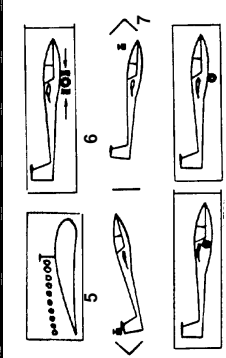
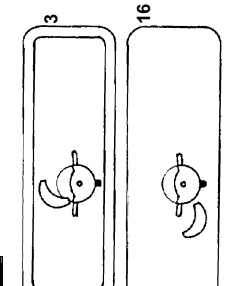
1. Lead ballast (for underweight pilot)?
2. Safety harness buckled?
3. Front seat: pedals adjusted?
4. Rear seat: seating height adjusted?
5. All controls and knobs in reach?
6. Dive brakes cycled and locked?
7. Positive control check? (One person at the control surfaces).
8. Trim ballast tank emptied or correct amount filled in?
9. Trim ballast box in the fin, correct amount filled in?
10. Locking device completely engaged?
11. Trim/Escape/Propeller locked?
12. Runway free?
- 13.

Swidan transit

at cover plate of fin ballast box

Ballast box in the fin

box empty	box filled
Min. load in the fin	kg
	lb



Basisteil Nr.:

part no. of components at all parts

Typ:	DG-1000S
Wkr.:	

fire proof placard at front main bulkhead

Gepäck max. 15 kg
baggage max. 33 lbs.

at front main bulkhead

Referenzdruck 2.5 bar
Type pressure 36 psi
at the right wheel door

Sollbruchstelle 10000 N
rated load 2260 lbs.

Referenzdruck 2.5 bar
Type pressure 36 psi
right above the nose wheel if applicable

Referenzdruck 4 bar
Type pressure 58 psi
right above the tailwheel

Brennflüssigkeit
brake fluid
DOT 3 / DOT 4

on brake fluid reservoir

Warning:
Rigging of the horizontal stabilizer is only permitted with nose down trim setting!
at the upper left hand side of the fin

placards DG-1000S

DG Flugzeugbau GmbH
 Type: DG - 1000S Serial No.: 10- S
 Year of construction:

	km/h	kts.
Maximum airspeeds		
Winch launching	150	81
Aero-tow	185	100
Manoeuvring V _A	185	100
Rough air	185	100
Maximum speed V _{NE}	270	146

Approved aerobatic manoeuvres, only without waterballast:
 Pos. Loop, Chandelle, Spin, Stall turn

In addition Category A:
 Only with 18 m span without waterballast:
 Half loop and half roll, half roll and half loop, slow roll, inverted flight, half positive flick roll from normal flight with half loop, half negative flick roll from inverted flight

Maximum mass:

Category A and Category U with fixed main wheel	630 kg	1389 lbs.
Category U	750 kg	1653 lbs.
Category U without waterballast	kg	lbs.

Loading chart

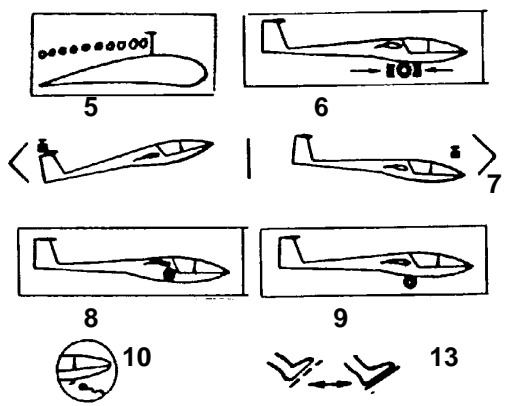
Cockpit load maximum	front seat		rear seat		Parachute included)
	kg	lbs.	kg	lbs.	
or maximum minimum	110 kg	242 lbs.	90 kg	198 lbs.	
	105 kg	231 lbs.	105 kg	231 lbs.	
	kg	lbs.	/	/	

With lower pilot weight necessary ballast must be added.

limits for use of the waterballast tank

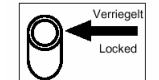
	°C	13.5	17	24	31	38
minimum ground temperature	°F	56	63	75	88	100
maximum	m	1500	2000	3000	4000	5000
flight altitude	ft.	5000	6500	10000	13000	16500

Altitude in [m]	0-3000	4000	5000	6000	7000	8000
V _{NE} IAS km/h	270	256	243	230	217	205
Altitude in [ft]	0-10000	13000	16000	20000	23000	26000
V _{NE} IAS kts.	146	138	131	124	117	111

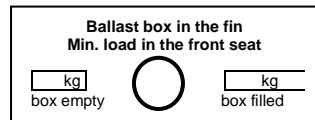


- Cockpit Check**
1. Lead ballast (for under weight pilot)?
 2. Parachute worn property?
 3. Safety harness buckled?
 4. Front seat: pedals adjusted?
Rear seat: seating height adjusted?
 5. All controls and knobs in reach?
 6. Altimeter?
 7. Dive brakes cycled and locked?
 8. Positive control check ? (One person at the control surfaces).
 9. Fin ballast tank emptied or correct amount filled in?
 10. Trim ballast box in the fin, correct amount filled in? Locking device completely engaged?
 11. Trim?
 12. Both canopies locked?
 13. Runway free?

1 **Senden transmit** 22



at cover plate of fin ballast box



Bauteil Nr.:

part no. of components at all parts

Typ:	DG-1000S
W.Nr.	

fire proof placard at front main bulkhead

Gepäck max. 15 kg
 baggage max. 33 lbs.

at front main bulkhead

Reifendruck 2,5 bar
 Tyre pressure 36 psi

at the right wheel door

Sollbruchstelle 10000 N
 rated load 2200 lbs.

Reifendruck 2,5 bar
 Tyre pressure 36 psi

right above the nose wheel if applicable

Reifendruck 4 bar
 Tyre pressure 58 psi

right above the tailwheel

Bemsflüssigkeit

min. brake fluid
 DOT 3 / DOT 4

on brake fluid reservoir

Warning:
 Rigging of the horizontal tailplane is only permitted with nose down trim-setting!

at the upper left hand side of the fin

diagram 11
 issued May. 2004

