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 TN413/2	September 2003
2	0.6, diagrams 1 and 11	Manual revision TN413/3	May 2004
3	0.4, 0.6, 1.9, diagram 7	Landing gear / over centre lock in extended position TN413/7	Nov. 2004
4	0.4, 0.5, 0.11, 2.6, 6.2, 6.4, 7.1	Manual revision TN413/8	January 2005
5	0.4 - 0.6, 0.10, 1.9, 1.10, 4.7-4.9, diagrams 17, 18	landing gear positive locking device TN1000/13	February 2008
6	0.4, 0.6, 0.10, 1.14 diagram 6a	ÄM 1000-02 Fin ballast tank valve and handle	March 2008
7	0.4, 0.5, 0.6, 1.2, 2.6, 4.2, 6.2, diagrams 3, 9, 11, remove page 2.7	Manual revision TN1000/16	May 2008
8	0.4, 0.5, 0.6, 0.10, 4.8, 4.9, diagram 7a	ÄM1000-04 production version of the positive locking device	Oct. 2008
9	0.4, 0.6, 0.10, diagrams 20-22, drawings 10E3, 10E4, enclosure 1	Electrically operated main landing gear TN1000/14	November 2008
10	0.6 and 0.10, diagram 21, Encl. 1 pages 2, 2a and 8. drawing 10E4 issue E	Electrically operated landing gear, device to provide higher current for resetting the emergency extension gas strut TN1000/19	October 2010
11	0.2, 0.4 ÷ 0.12, 1.2, 1.5, 1.11, 1.14, 1.15, 1.18, 2.1, 2.4 ÷ 2.6, 3.3, 4.8, 5.1, 6.2, 6.4, diagr. 1, diagr. 9, encl. 1 pages 1, 2, 2a, 4, 8, 10E3, Z193, SI 67-07, remove 5EP50	Manual revision TN1000/18	February 2011
12	0.2, 0.4, 0.6, 0.10, Encl. 2, 10EP41, 10E6	Special equipment for aerobatics TN1000/20	March 2011
13	0.6, diagrams 8 and 9	Wheel brake TN1000/21	July 2011
14	0.2, 0.6, Encl. 2, 10E6	TN1000/20 Revision 1	June 2012

0.2 List of effective pages

Section	page	issued	replaced/	replaced/	replaced/
0	0.1	March 2002			
	0.2	see manual amendments			
	0.3	"			
	0.4	"			
	0.5	"			
	0.6	"			
	0.7	March 2002	Febr. 2011		
	0.8	"	Febr. 2011		
	0.9	"	Febr. 2011		
	0.10	"	Febr. 2008	March 2008	Oct. 2008
			Nov. 2008	Febr. 2011	March 2011
	0.11	"	January 2005	Febr. 2011	
	0.12	"	Febr. 2011		
1	1.1	March 2002			
	1.2	"	May 2008	Febr. 2011	
	1.3	"			
	1.4	"			
	1.5	"	Febr. 2011		
	1.6	"			
	1.7	"			
	1.8	"			
	1.9	"	Nov. 2004	Febr. 2008	
	1.10.	"	Febr. 2008		
	1.11	"	Febr. 2011		
	1.12	"			
	1.13	"			
	1.14	"	March 2008	Febr. 2011	
	1.15	"	Febr. 2011		
	1.16	"			
	1.17	"			
	1.18	Febr. 2011			
2	2.1	March 2002	Febr. 2011		
	2.2	"			
	2.3	"			
	2.4	"	Febr. 2011		
	2.5	"	Febr. 2011		
	2.6	"	January 2005	May 2008	Febr. 2011
	2.7	"	removed May 2008		

0,2 List of effective pages (continued)

diagram	issued	replaced/	replaced/	replaced/
1	Nov. 2001	May 2004	Oct. 2010	
2	Nov. 2001			
3	Nov. 2001	May 2008		
4	Nov. 2001			
5	Nov. 2001			
6	Nov. 2001	March 2008	March 2008 Not valid for 10-101, and from 10-128 on	
	March 2008			
7	Nov. 2001	Sept. 2003	Nov. 2004	
7a	Oct. 2008			
8	Nov. 2001	July 2011		
9	Nov. 2001	Jan. 2008	Febr. 2011	July 2011
10	Nov. 2001			
11	Nov. 2001	Sept. 2003	May 2004	May 2008
12	Nov. 2001	Sept. 2003		
17	Febr. 2008			
18	Febr. 2008			
20	Nov. 2008			
21	Nov. 2008	Oct. 2010		
22	Nov. 2008			
5EP34	25.01.90			
5V18	14.10.94			
10FW2	5.10.99			
10E3	28.11.2008	28.02.11		
10E4	20.10.08			
10E4	8.10.10			
issue E				
Encl. 1	Nov. 2008	Page 2, 2a, 8 Oct. 2010	1, 2, 2a, 4 8, Febr. 2011	
Encl. 2	March 2011	June 2012		
10EP41	4.02.11			
10E6	23.02.11	23.02.2012		
SI 67-07	5.11.2007			
Z193	4.11.2009			

diagrams

1	Elevator control, trim
2	Rudder control
3	Aileron and spoiler controls in the fuselage
4	Aileron and spoiler controls in the wings
5	Tow releases
6	Water ballast system
6a	Waterballast system 10-101, from 10-128 on
7	Landing gear, hydraulic wheel brake (Version without nose wheel) up to ser. No. 10-132
7a	Landing gear, hydraulic wheel brake (Version without nose wheel) from ser. No. 10-133 on
8	Landing gear, hydraulic wheel brake (Version with nose wheel)
9	Landing gear, non retractable
10	Systems for static and total pressure
11	Placards
12	Landing gear control (Version without nose wheel)
17	Landing gear positive locking device TN1000/13, no more valid from ser. No. 10-133 on
18	actuation unit LG locking device, differences to diagr. 12 for TN1000/13 and from ser. no. 10-133 on
20	Electrically operated main landing gear (in landing gear box)
21	Electrically operated main landing gear (outside landing gear box)
22	Placards electrically operated main landing gear
5EP34	Installation plan Dräger oxygen system
5V18	Tool for airbrake adjustment
10FW2	Spring leg (landing gear)
10E3	Wiring plan DG-1000S with electrically operated main landing gear
10E4	Wiring plan electrically operated main landing gear TN1000/14
10E4	Wiring plan electrically operated main landing gear TN1000/19
issue E	
Encl. 1	Electrically operated main landing gear
Encl. 2	Special equipment for aerobatics
10EP41	Installation plan G-logger DG-GL
10E6	Wiring plan DG-1000S with smoke generator
SI 67-07	Service Info ballast box in the fin foam rubber rings
Z193	406 MHZ ELT antenna BD3 installation 2-seaters

Section 1 system description and adjustment data

1.13 Smoke system

As optional equipment 18 m wing tips with holders for 2 smoke grenades per wing according to TN1000/20 instruction 1 may be installed.

Electrical installation according to wiring plan 10E6 issue b (attached to this MM).

Guarded momentary switches to activate the grenades are mounted at the front instrument panel. The switches are guarded by red covers which must the lifted first to activate the switch.

A circuit breaker for the smoke system is provided in the console below the instrument panel at the left hand side of the radio.

Note: Smoke Grenades may produce an internal short circuit when ignited causing the smoke system circuit breaker to pop should the momentary switch be actuated a second time.
The batteries should only be equipped with (medium) fuses, as listed below. Tests have shown fast acting battery fuses may burn out before the 1 amp smoke system circuit breaker will pop.

Parts for the electrical system:

60510475	Switch 20-646 H main switch
60510360	Switch MTA 106 D selector switch avionic
60510509	Switch MTG 106 G for smoke ignition
60510356	Guard for switches 60-12-0 for smoke ignition switches
60510378	Circuit breaker ETA 1A
10002127	Preh-socket 5-pins, 180° for wiring to wings and tips
10002121	Preh-plug 5-pins, 180° for wiring to wings and tips
60510433	G250V 5x20 4A MT for batteries (medium)

Section 6 Instrument and accessories list

Harness seat

As optional equipment instead of a 4-point harnesses a 4-point harnesses with additional crotch strap may be installed according to TN1000/20 instruction 2.

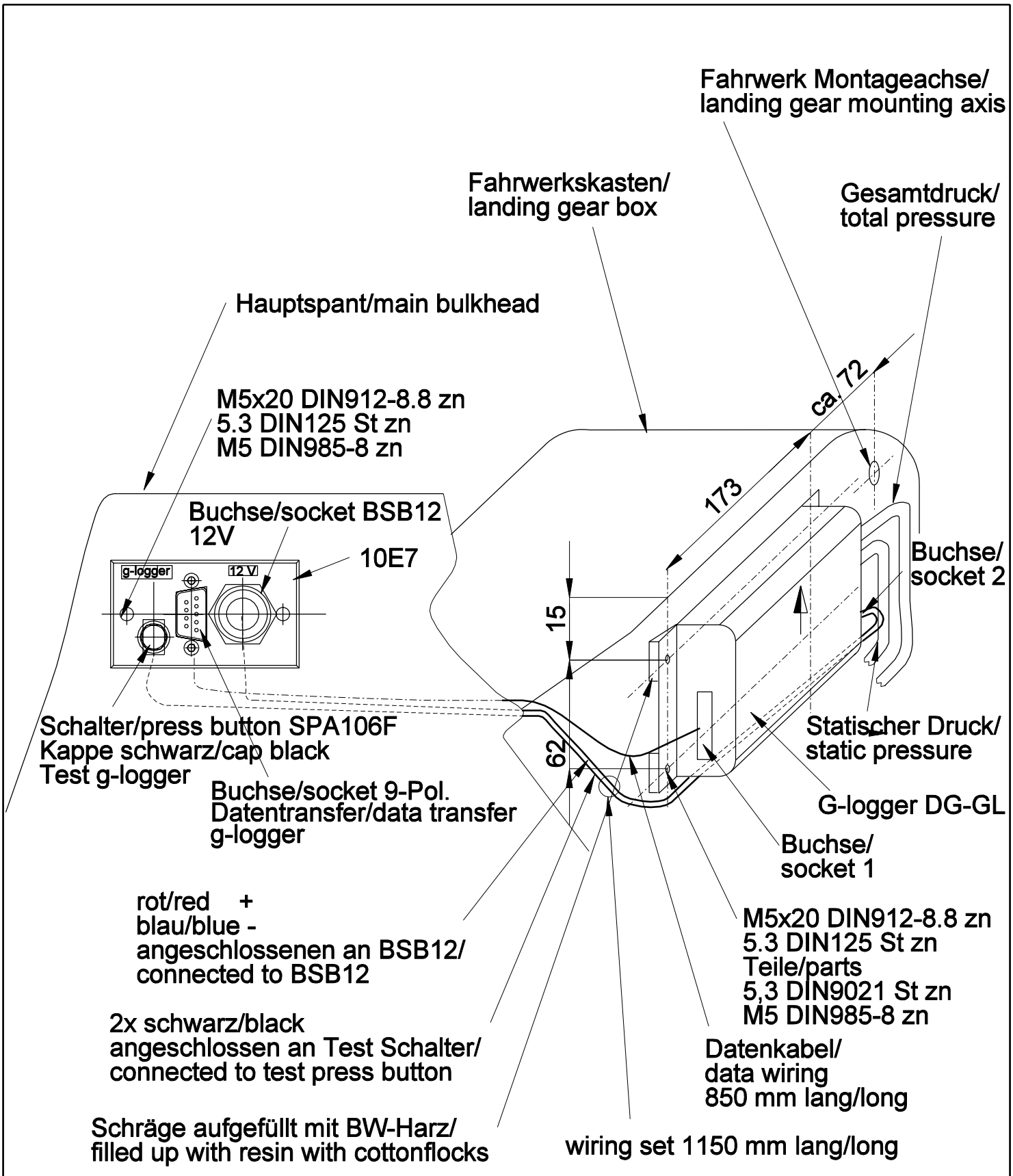
Manufacturer	Type	**Certification No.**
Schroth	4-02-2804 (4-point harnesses with additional crotch strap)	40.073/11

G-logger

As optional equipment G-logger (records flight log, max. g-values and max airspeed per flight) may be installed according to TN1000/20 instruction 3.

Manufacturer	Type	**Certification No.**
DG Flugzeugbau	DG-GL	n.a.

Note: For instructions see Manual for DG-GL G-logger.
Installation according to installation plan 10EP41 (attached to this MM).



Toleranzen nach Arbeitsanweisung BA 1				
Schweißen nach Arbeitsanweisung SA 1				
Ausg.	Änderung	ÄM	Tag	Name

	Tag	Name
Gez.	4.02.11	W.Dirks
Gepr.		
Norm.		

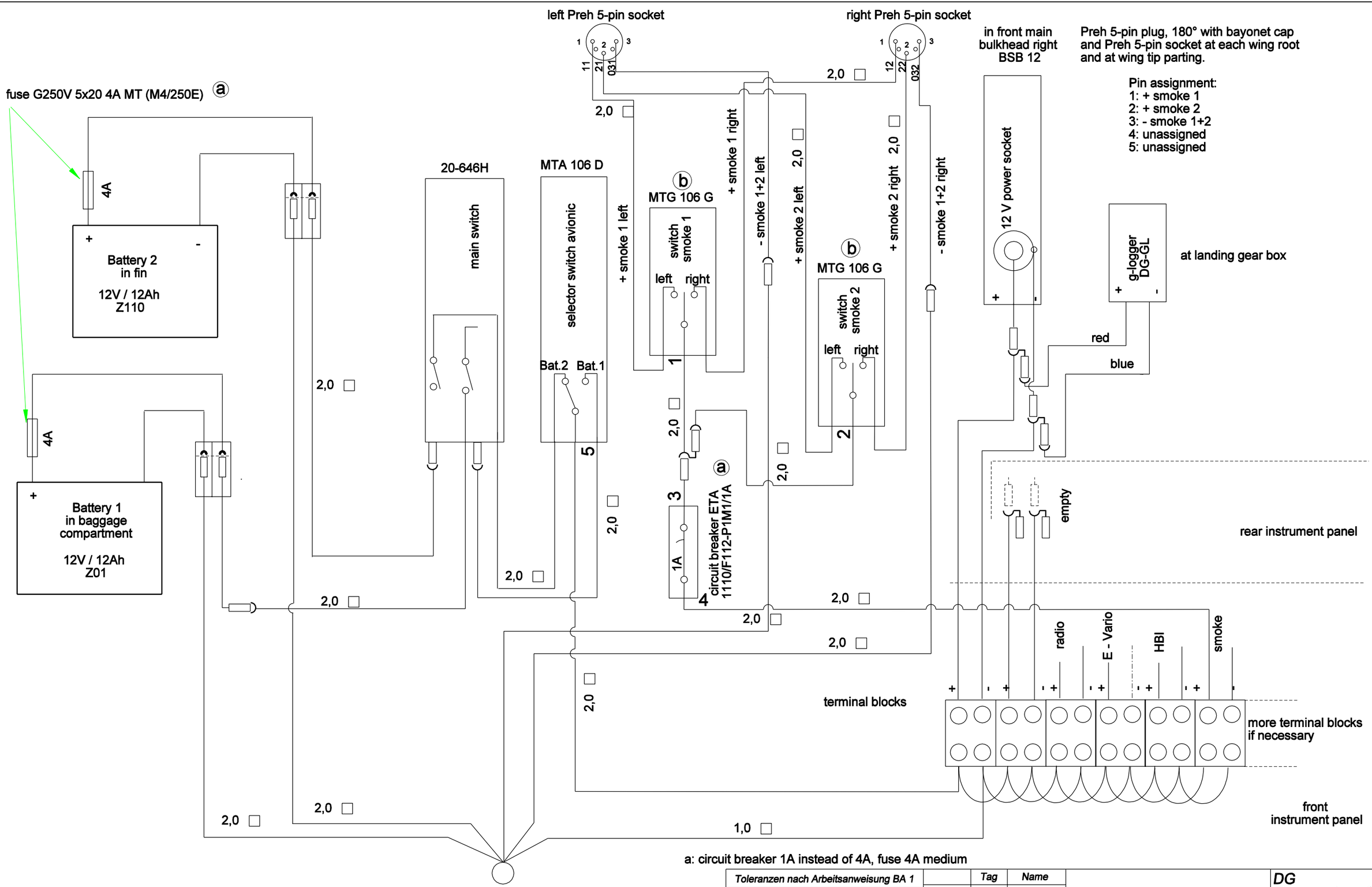
Maßstab 1:1 :

Maße ohne Toleranz-ang. nach:

Einbauplan
Installation plan
G-logger DG-GL

DG
Flugzeugbau GmbH
76646 Bruchsal 4
Im Schollengarten 20

10EP41



a: circuit breaker 1A instead of 4A, fuse 4A medium

- wiring 2,0□ AWG 14
- wiring 1,0□ AWG 16

wiring not specified in the drawing is AWG 16
all wires marked with heat shrink tubing red "+"
black "-", if not specified otherwise

distributor (male-female)
RSQ 7631/6,3-2,5

Ausg.	Änderung	ÄM	Tag	Name
b	MTG106G instead of MTG206R	all	23.02.12	W.Dirks
a	see above a	all	2.11.11	W.Dirks

Toleranzen nach Arbeitsanweisung BA 1
Schweißen nach Arbeitsanweisung SA 1

	Tag	Name
Gez.	23.02.11	W. Dirks
Gepr.		
Norm.		

Maßstab :

Maße ohne Toleranz-ang. nach:

wiring plan DG-1000S with smoke generator

DG Flugzeugbau GmbH
76646 Bruchsal 4
Im Schollengarten 20

10E6