Manual amendments

No.	Page	Description	Date
9	Cover page, 0.2, 0.3	TN DG-G-17 Update of cover page	August 2025
10	0.2, 0.3, 0.6, 0.10, 1.2, drawing 1 St 038	TN 800/52 Control column, control stick suspension, securing the spherical bearings	September 2025

0.2 List of effective pages

Section	page	issued	replaced/	replaced/	replaced/
	Title	June 2005	Jul. 2017	May 2023	Aug. 2025
0	0.1	see manual amendments			
	0.2	"			
	0.3	"			
	0.4	"			
	0.5	"			
	0.6	"			
	0.7	June 2005	Sep. 2007	May 2012	Feb. 2018
	0.8	"	May 2012		
	0.9	"	May 2012		
	0.10	"	Sep. 2007 Sep. 2025	May 2012	Feb. 2018
	0.11	"	May 2012 May 2023	Jul. 2017	Feb. 2018
	0.12	"	Sep. 2007 Feb. 2018	May 2012 May 2023	Jul. 2017
	0.13	Febr. 2018			
1	1.1	June 2005			
	1.2	"	May 2012	Dec. 2023	Sep. 2025
	1.3	"	May 2012	Dec. 2023	
	1.4	"			
	1.5	"			
	1.6	"	May 2012		
	1.7	"			
	1.8	"	May 2012		
	1.9	"			
	1.10	"	May 2012		
	1.11	"	Apr. 2007	May 2012	
	1.12	"			
	1.13	"			
	1.14	"	May 2012		
	1.15	"	May 2012		
	1.16	"	May 2012	Feb. 2018	
	1.17	"			
	1.18	"			
	1.19	"			
	1.20	"			
	1.21	"			
	1.22	"			
	1.23	"			
	1.24	"	May 2012		
	1.25	"			

0.2 List of effective pages (continued)

diagram	issued	replaced/	replaced/	replaced/
1	June 2005	May 2012		
2	June 2005	May 2012		
3	Nov. 2004	May 2012	July 2017	
4	Nov. 1993	May 2012		
5	Nov. 2004	May 2012	valid up to ser. No. 8-372	
5a	April 07	May 2012	valid from ser. No. 8-373 on	
6	May 2005			
7a	August 2005			
7b	August 2005			
8	August 2005	May 2012	May 2023	
9	August 2005	May 2012	July 2017	
10	August 2005	April 2009	May 2012	
11c	June 1999	Febr. 2018		
11e	Febr. 2018			
12	June 2005	May 2012		
13	Febr. 1999	May 2012		
13a	May 2012			
14	Nov. 2004	May 2012		
14a	June 2005	May 2012	no more effective	
15	Nov. 2004			
16	Nov. 2004	May 2023		
17	May 2012			
6EP27M	28.08.90			
8EP38	17.02.99			
8EP210	12.02.07	12.02.07		
8M110	23.10.02	5.07.11		
8M234	25.08.05			
8V96	19.12.94			
W40	30.11.99			
W51	20.11.96			
W57	10.09.99			
W59	18.06.02			
W60	25.10.04			
8E25	25.06.99			
8E210	15.05.97			
8E250	13.09.05	18.10.11	15.01.14 Valid from ser.no. 8-428 on without 431	
8E256	24.06.05	15.01.14	Valid from ser.no. 8-428 on without 431	
Encl. 1	June 2005			
Encl. 2	Sept. 2007			
TN 4600-2-2 Solo	Jan. 2007			
SI 69-10	14.05.10			
Working instruction No. 1 for TN800/46			Febr. 2018	
1 St 038	01.09.25			

Diagrams

1	Elevator control circuit, trim
2	Rudder control circuit
3	Aileron, wing flap and airbrake control circuits, fuselage side
4	Flaperon and airbrake control circuits, wing side
5	Tow hook, water ballast system
5a	Tow hook, water ballast system from ser. no. 8-373 on
6	Static and pitot system
7a	Placards DG-808C Classic
7b	Placards DG-808C Competition
8	Powerplant
9	Cooling system
10	Extension-retraction mechanism
11c	Installation of the fuel filter
11e	Fuel system from ser. no. 8-373 on
12	Tailwheel
13	Propellerbrake
13b	Propellerbrake with modified mounting of the propeller-brake retaining rubber cord (Option TN 800/41)
14	Engine doors and retaining cable
14a	~~Retaining cable mounting in fuselage~~ no more effective TN 800/41
15	Undercarriage control circuit
16	Undercarriage
17	Drain and ventilation holes

Enclosures

6EP27M	Installation Dräger oxygen system
8EP38	Installation plan ELT ACK
8EP210	wing fuel tank system fuselage side with electromagnetic valves
8M110	Drawing assembly upper drive belt pulley
8M234	Ext.-retr. unit, installation propeller stopper Option BBSA clutch
8V96	Drawing jigs to determine the static moment of the flaperons
W40	Puller assy. for lower drive belt pulley
W51	Drawing hook spanner for bearings
W57	Tool for measuring the drive belt tension
W59	Test adapter for coolant pump test
W60	Puller assy. for lower drive belt pulley Option BBSA clutch
8E25	Wiring plan wing fuel tank system fuselage side with electromagnetic valves
8E250	Wiring plan DIN A1 (in aircraft log)
8E256	Wiring scheme
8E210	Extension wires for checking the ignition electronic boxes
Encl. 1	Download instruction for flightlog and service data from the DEI-NT
Encl. 2	Instructions for transponder installation
TN 4600-2-2 Solo	Check and modification of the slip-clutch on the engines 2 625 01 and 2 625 02
SI 69-10	Service Info: Adjustment of propeller after jump of drive belt
Working instruction No. 1 for TN800/46	
1 St 038	Additional control column safeguard acc. to TN 800/52

1.2 Elevator control and trim system

1.2.1 Control system

see diagram 1 and drawing 1 St 038

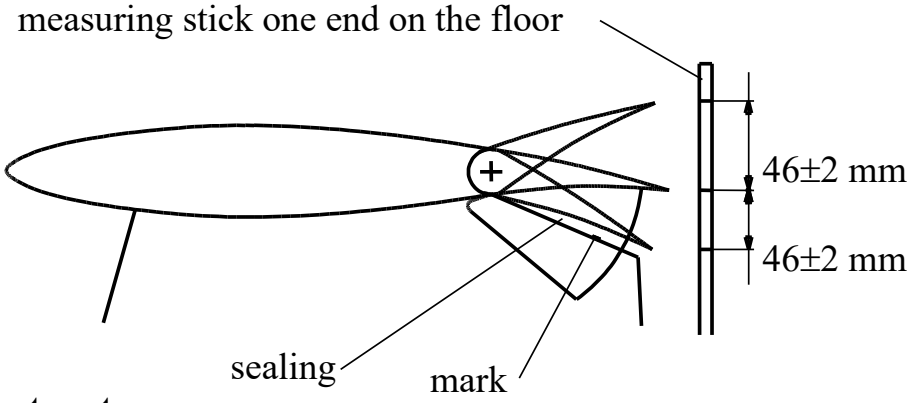
1.2.2 Elevator deflections and tolerances

up:	46 ± 2 mm	1.81 ± 0.08 in.
down:	46 ± 2 mm	1.81 ± 0.08 in.

measured at 134 mm (5.3 in.) from hinge axis which is directly at the edge of the cut-out for the rudder.

Measurement:

Hold a measuring stick with one end on the floor. Deflect the elevator to neutral position by bringing the mark at the sealing in line with the upper end of the fin. Mark the 0-point on the stick. Then mark the up and down displacement.



1.2.3 Elevator stops

The elevator stops are located at the base of the control column and can be adjusted with a 10 mm open ended spanner.

1.2.4 Elevator control circuit free play

With the elevator held fixed in the zero position, the free play at the top of the control column can be ± 1.5 mm (± 0.06 in.).

Free play within the automatic elevator connection

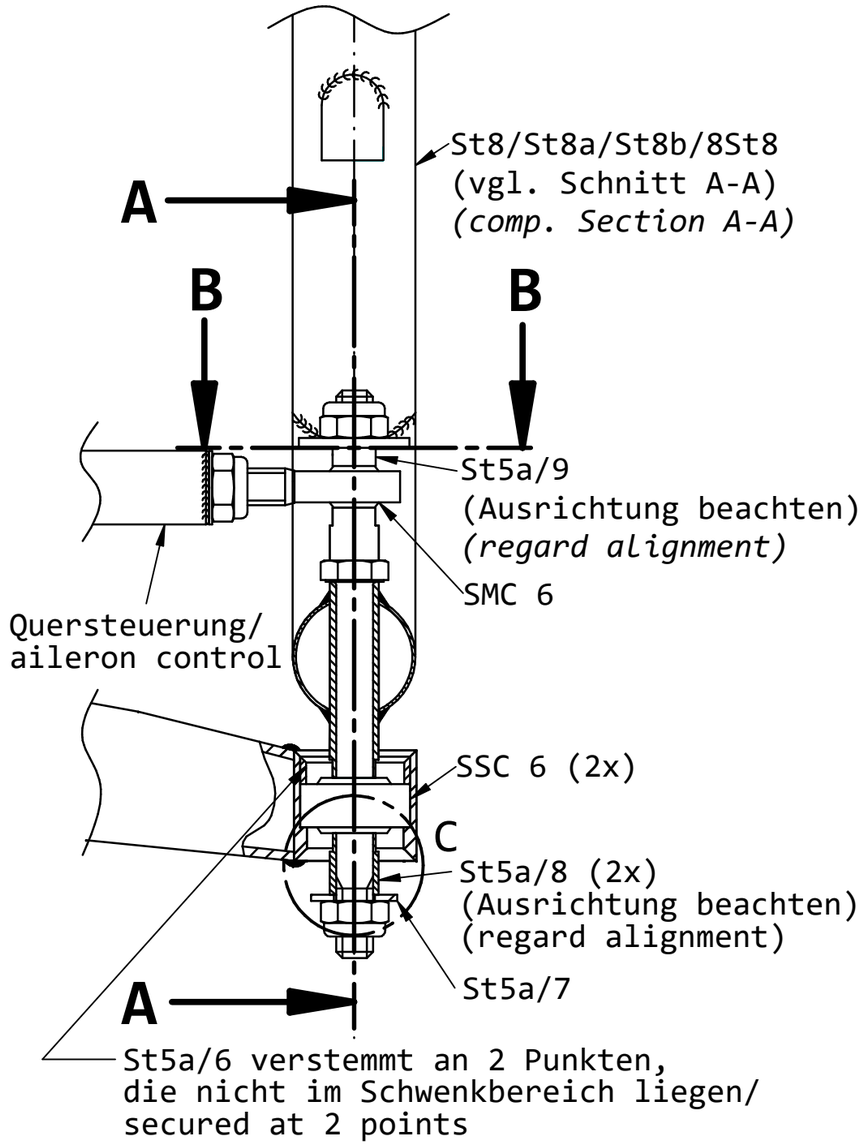
Within the automatic elevator connection there should be no free play noticeable in the zero position when the elevator is moved at its trailing edge.

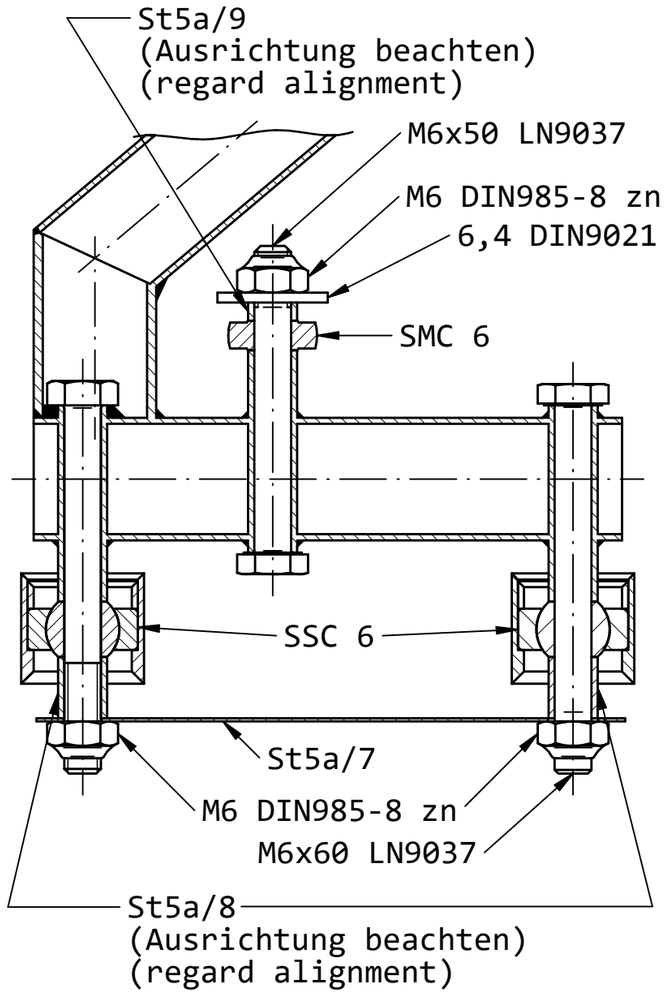
Any free play can be reduced by screwing in the adjustment screw on the automatic connector funnel.

Warning: In case the adjustment screw was turned in too far, the roller will jam inside the funnel and can´t be moved or only with larger force to the front of the funnel. Moving the horizontal tailplane backwards for rigging might not be possible or only with large effort. Each time a bending force will act on the rod end which might lead to failure of the rod end with time.

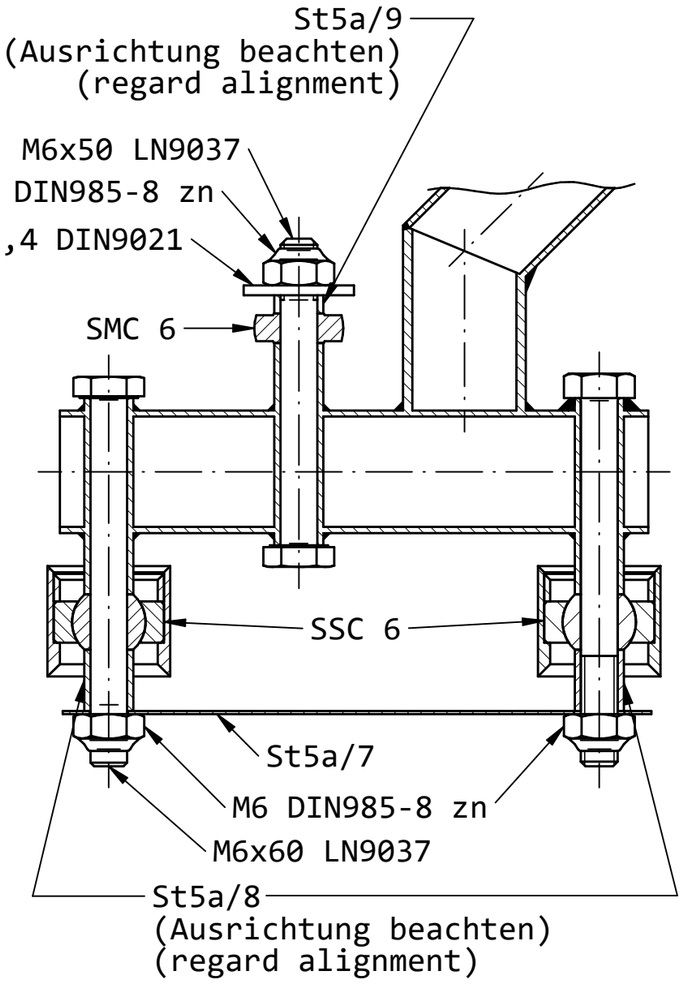
For this reason after adjusting the free play it is necessary to check if the roller can be moved without force in the funnel.

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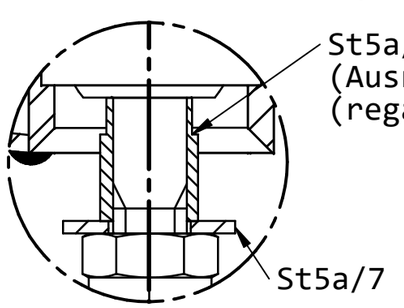




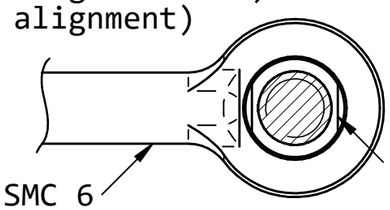
A-A
(bei/with St8/St8a/8St8)



A-A
(bei/with St8b)



C (2:1)



B-B (2:1)

Zusätzliche Sicherungen des Handsteuers gemäß TM DG-SS-10 bzw. TM 800/52
Additional control column safeguard according to TN DG-SS-10 resp. TN 800/52

Ausg.	Beschreibung	ab W-Nr.	Name/Datum
-	Erstausgabe		E. Scharf 01.09.2025

Gepr. (MPI) J. B. Wassenaar 01.09.2025 | Freig. (MPL) W. Dirks 01.09.2025

Zeichnungsnummer: 1 St 038

Titel: **Handsteuersicherung/ Control Column Safeguard**

Toleranzen nach Arbeitsanweisung BA 1
Schweißen nach Arbeitsanweisung SA 1

76646 Bruchsal | Otto-Lilienthal-Weg 2

Maßstab 1	Maßstab 2	Einheiten	Projektion	Format	Seite	Status
1:1	(2:1)	mm [inch]		DIN A3	1 / 1	Musterunterlage

Projekt: DG single seaters, DG-800 | Ausg. .0