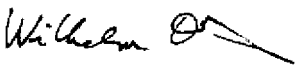
Recommendations to order spare parts

Please try to determine the exact designations of the spare parts for your order using the maintenance manual. This is to guarantee a fast and correct delivery of the parts.
The designations are to find in the sections system description, instructions for assembly and servicing work and especially in the diagrams of the maintenance manual.

Yours sincerely

DG Aviation GmbH



Dipl.- Ing. W. Dirks

Copyright DG Aviation GmbH - any copy or publishing prohibited
Manual valid with the up-to-date cover page only

0 General

0.1 Manual amendments

No.	Page	Description	Date
0.1	all	Combination of the initial Maintenance Manuals of the Variants DG-800S and DG-808S, new standardized format	December 2009
0.2	0.8, 1.5, 1.6, 1.8, 1.9, 1.11, 1.12, 2.1, 2.3, 2.6, 4.2, 4.3, 4.7, 4.9, 5.1, 6.1 - 6.3	Miscellaneous changes to the contents of the latest amendments of the initial maintenance manuals	December 2009
1	0.1, 0.3, 1.2, 1.3	TN 800/50 Adjustment of elevator free play	December 2023
2	Cover Page, 0.1, 0.3	TN DG-G-17 Update of cover page	August 2025
3	0.0, 0.1, 0.3, 0.5, 0.7, 1.2, drawing 1 St 038	TN 800/52 Control column, control stick suspension, securing the spherical bearings	September 2025

Copyright DG Aviation GmbH - any copy or publishing prohibited
Manual valid with the up-to-date cover page only

0.2 List of effective pages

Section	page	issued	replaced/	replaced/	replaced/
	Title	December 2009	August 25		
0	0.0	December 2009	September 25		
	0.1	see manual amendments			
	0.2	"			
	0.3	"			
	0.4	"			
	0.5	"			
	0.6	"			
	0.7	December 2009	September 25		
	0.8	"			
	0.9	"			
1	1.1	December 2009			
	1.2	"	December 23	September 25	
	1.3	"	December 23		
	1.4	"			
	1.5	"			
	1.6	"			
	1.7	"			
	1.8	"			
	1.9	"			
	1.10.	"			
	1.11	"			
	1.12	"			
	1.13	"			
	1.14	"			
2	2.1	December 2009			
	2.2	"			
	2.3	"			
	2.4	"			
	2.5	"			
	2.6	"			
	2.7	"			

Copyright DG Aviation GmbH - any copy or publishing prohibited
Manual valid with the up-to-date cover page only

0.2 List of effective pages (continued)

Diagram	issued	replaced/	replaced/	replaced/
1	May 1999			
2	May 1999			
3	Dec. 2009			
4	Nov. 1993			
5	Dec. 2009			
6	Nov. 1993			
7	Nov. 1993			
7a	Febr. 2003			
8	Febr. 2003			
9	Febr. 2003			

Enclosure	issued	replaced/	replaced/	replaced/
6EP18	28.08.90			
8EP38	07.08.95			
8V96	19.12.94			
1 St 038	01.09.25			

Copyright DG Aviation GmbH - any copy or publishing prohibited
Manual valid with the up-to-date cover page only

Section	content	page
4.4	Removal and installation of the landing gear (main wheel)	4.3
4.5	Fixing excessive free play of the canopy	4.4
4.6	Removal and installation of the flaperons	4.5
4.7	Control surface seals and turbulators	4.6
4.8	Determination of the moments of the flaperons	4.10
5	Weight and balance	5.1
6	Instrumentation and accessories list	6.1
6.1	Air speed indicator (0 - 300 km/h, 165 kts)	6.1
6.2	Altimeter	6.1
6.3	Harness (seat)	6.1
6.4	Compass	6.2
6.5	VHF transceiver	6.2
6.6	Variometer	6.2
6.7	Turn and bank indicator	6.3
6.8	Outside air temperature gauge	6.3
6.9	Instruments which are not part of the minimum equipment:	6.3
7	List of special tools	7.1
8	Partlist	8.1
8.1	Control surface sealings and turbulators	8.1
9	Enclosures	9.1
9.1	Equipment list	9.1

Diagrams

1	Elevator control circuit, trim
2	Rudder control circuit, landing gear
3	Aileron, wing flap and airbrake control circuits, fuselage side
4	Flaperon and airbrake control circuits, wing side
5	Tow hook, water ballast system DG-800S und DG-808S Version Classic
6	Static and pitot system
7	Placards DG-800S
7a	Placards DG-808S
8	Waterballast system DG-808S Version Version Competition wings
9	Waterballast system DG-808S Version Version Competition fuselage

Enclosures

6EP18	Installation Dräger oxygen system
8EP38	Installation plan ELT ACK
8V96	drawing jigs to determine the static moment of the flaperons
1 St 038	Additional control column safeguard acc. to TN 800/52

Copyright DG Aviation GmbH - any copy or publishing prohibited
Manual valid with the up-to-date cover page only

1.2 Elevator control and trim system

1.2.1 Control system

see diagram 1 and drawing 1 St 038

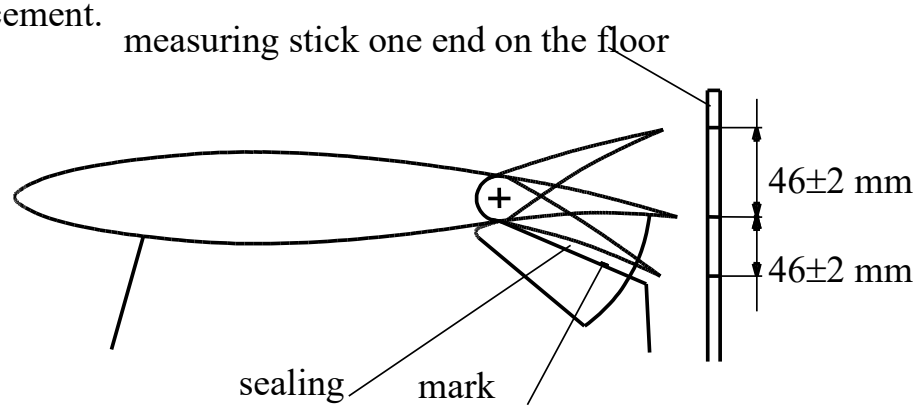
1.2.2 Elevator deflections and tolerances

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.

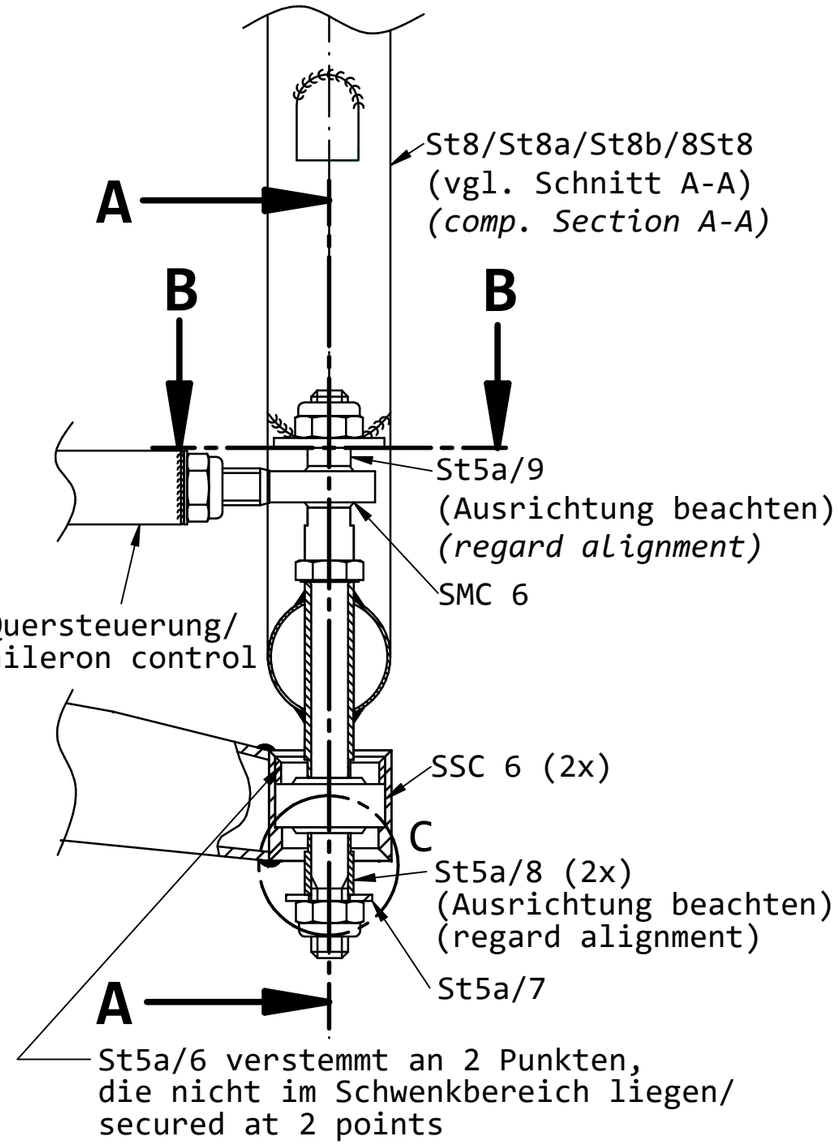
Any free play can be reduced by screwing in the adjustment screw on the automatic connector funnel.

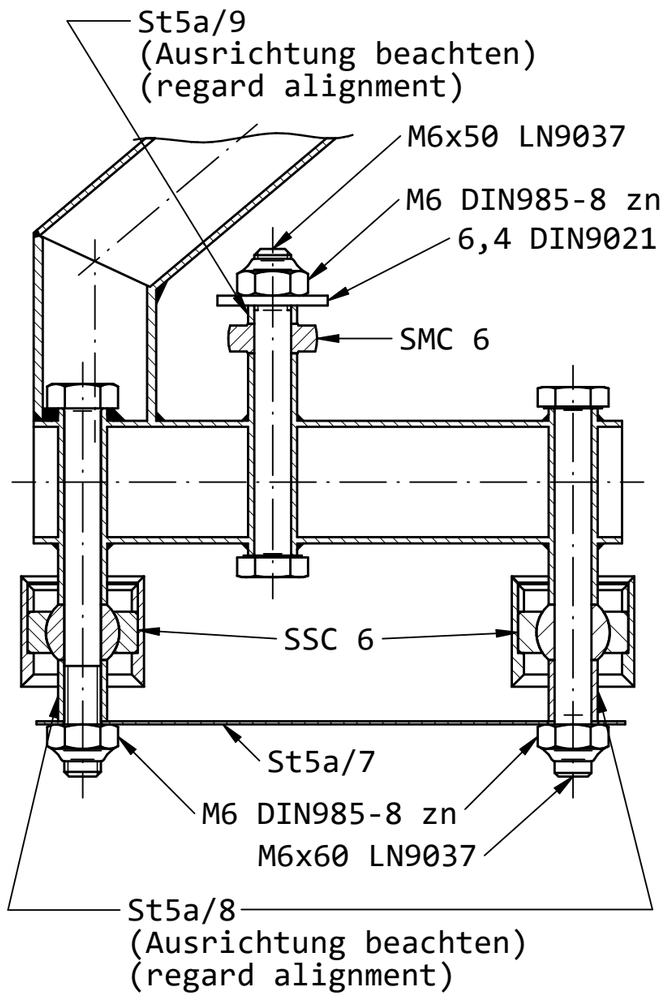
Warning: In case the adjustment screw was turned in too far, the roller will jam inside the funnel and can´t be moved or only with larger force to the front of the funnel. Moving the horizontal tailplane backwards for rigging might not be possible or only with large effort. Each time a bending force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

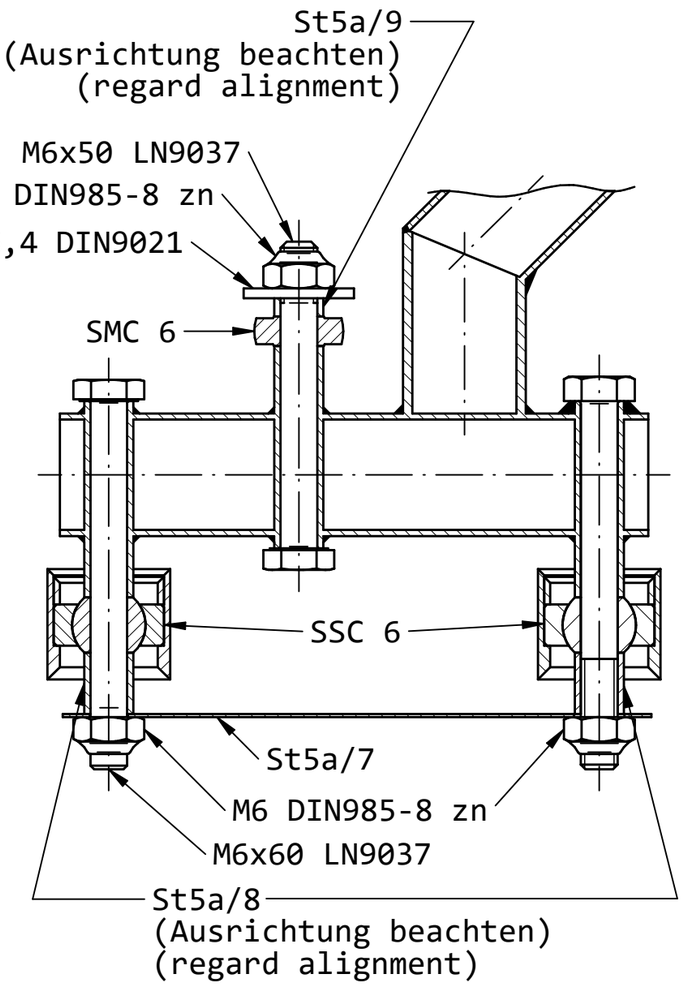
Copyright DG Aviation GmbH - any copy or publishing prohibited
Manual valid with the up-to-date cover page only

Diese Zeichnung ist Eigentum der DG Aviation GmbH.
Nicht ausdrücklich freigegebene Vervielfältigung oder Weitergabe an Dritte ist verboten.
DG Aviation GmbH.

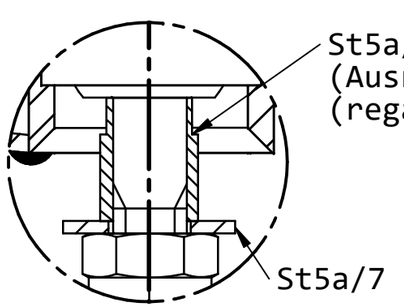




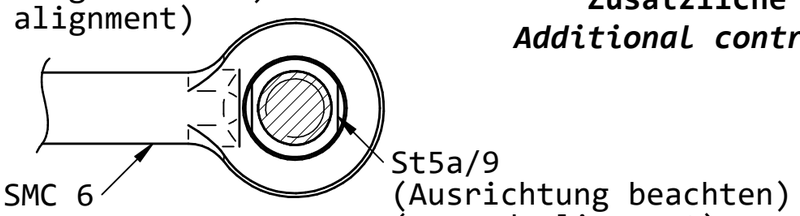
A-A
(bei/with St8/St8a/8St8)



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

INCH / MILLIMETER