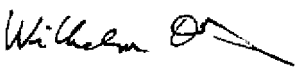
Recommendations to order spare parts

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 and in the parts lists in section 8.

Yours sincerely

DG Aviation GmbH



Dipl.- Ing. W. Dirks

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0 General

0.1 Amendments

No.	Page	Description	Date
0.1	all	New standardized format of the initial Maintenance Manual DG-800	December 2009
0.2	0.11, 1.4, 1.12, 1.15, 1.22, 2.1, 2.2, 2.6, 3.2, 3.7, 4.2, 4.10, 4.19, 4.24, 5.1, 6.1 – 6.3, 8.1, 8.3, TN873/33 with working instruction rev. 2, 4E30 Service info 61/06, 4R14, Service Info 63/07 with working instruction No. 1 for TN826/22 and drawing 4M81	Miscellaneous changes to the contents of the latest amendment of the initial maintenance manual	December 2009
1	0.1, 0.3 – 0.6, 0.8, 0.11, 3.4, 3.7, 3.8, 8.2, diagram 11	TN 800/44 Fuel hoses	October 2016
2	0.1, 0.3 - 0.6, 0.11, 0.12, 1.4, 1.24, 2.1, 2.2, 3.4, 8.1, 8.3, diagram 3	TN 800/45 Manual revision	July 2017
3	0.1, 0.3, 1.2 - 1.4	TN 800/50 Adjustment of elevator free play	December 2023
4	Cover page, 0.1	TN DG-G-17 Update of cover page	August 2025
5	0.0, 0.1, 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

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0.2 List of effective pages

Section	page	issued	replaced /	replaced /	replaced /
0	0.0	December 09	September 25		
	0.1	"	See manual amendments		
	0.2	"	"		
	0.3	"	"		
	0.4	"	"		
	0.5	"	"		
	0.6	"	"		
	0.7	"			
	0.8	"	October 2016		
	0.9	"			
	0.10	"	September 25		
	0.11	"	October 2016	July 2017	
	0.12	"	July 2017		
	1.1	December 09			
	1.2	"	December 23	September 25	
	1.3	"	December 23		
	1.4	"	July 2017	December 23	
	1.5	"			
	1.6	"			
	1.7	"			
	1.8	"			
	1.9	"			
	1.10.	"			
	1.11	"			
	1.12	"			
	1.13	"			
	1.14	"			
	1.15	"			
	1.16	"			
	1.17	"			
	1.18	"			
	1.19	"			
	1.20	"			
	1.21	"			
	1.22	"			
	1.23	"	July 2017		
	1.24	"			
	1.25	"			
	1.26	"			

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0.2 List of effective pages (continued)

Diagram	issued	replaced	replaced	replaced
1	Nov. 93			
2	Nov. 93			
3	Nov. 93	July 2017		
4	Nov. 93			
5	Nov. 93			
6	Nov. 93			
7	Nov. 93			
8	August 01			
9	Nov. 93			
11	Nov. 93	October 2016		
12	Nov. 93			

Enclosure	issued	replaced	replaced	replaced
8EP35	12.10.93			
EFWK	Okt. 87			
6EP27M	28.08.90			
8EP28	26.01.94			
8M71	1.10.93			
W33	9.03.88			
W34	24.03.88			
0-2/92	20.03.92			
8E1	19.11.93			
8E2	18.11.93			
8V96	19.12.94			
TN873/33 with	23.08.06			
Working instr.	12.02.10			
4E30	14.07.06			
Service Info 1/86	9.11.06			
4R14	12.12.06			
Service Info 63/07 with working instruction No. 1 for TN826/22 and drawing	28.03.07			
4M81	28.03.07			
1 St 038	01.09.25			

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Enclosures

8EP35	Installation wing fuel bags
EFWK	Installation landing gear doors
6EP27M	Installation Dräger oxygen system
8EP28	Installation ELT
8M71	Drawing ignition boxes and propellerbrake
W33	Drawing special tool
W34	Drawing special tool
0-2/92	Service information
8E1	Wiring scheme (DIN A 2 in aircraft log)
8E2	Wiring plan (DIN A 1 in aircraft log)
8V96	Drawing holder for determining flaperon momewnts
TN873/33 with working instr.	Engine ingnition system „
4E30	Modification of the wiring for Ducati electronic ignition boxes 432372501
Service Info 1/86	Motor with gear and brake for spindle drive
4R14	Spindle drive assembly

Service Info 63/07 starter motor for Rotax 505 with working instruction No. 1 for TN826/22 and drawing 4M81

1 St 038	Additional control column safeguard acc. to TN 800/52

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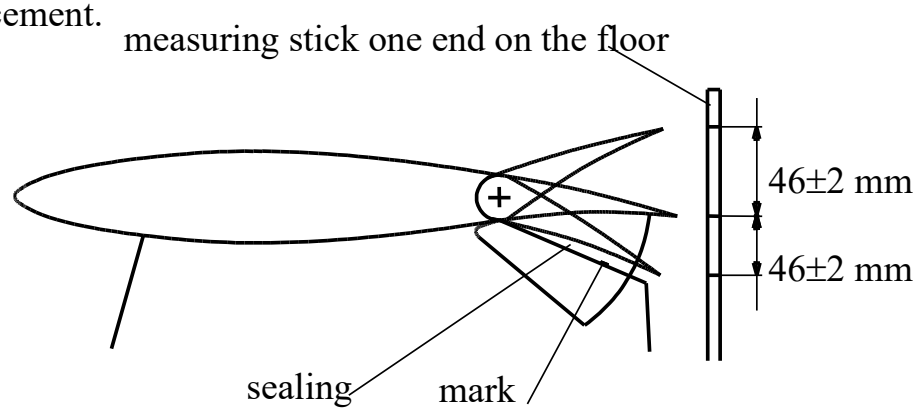
1.2 Elevator control and trim system

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.

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

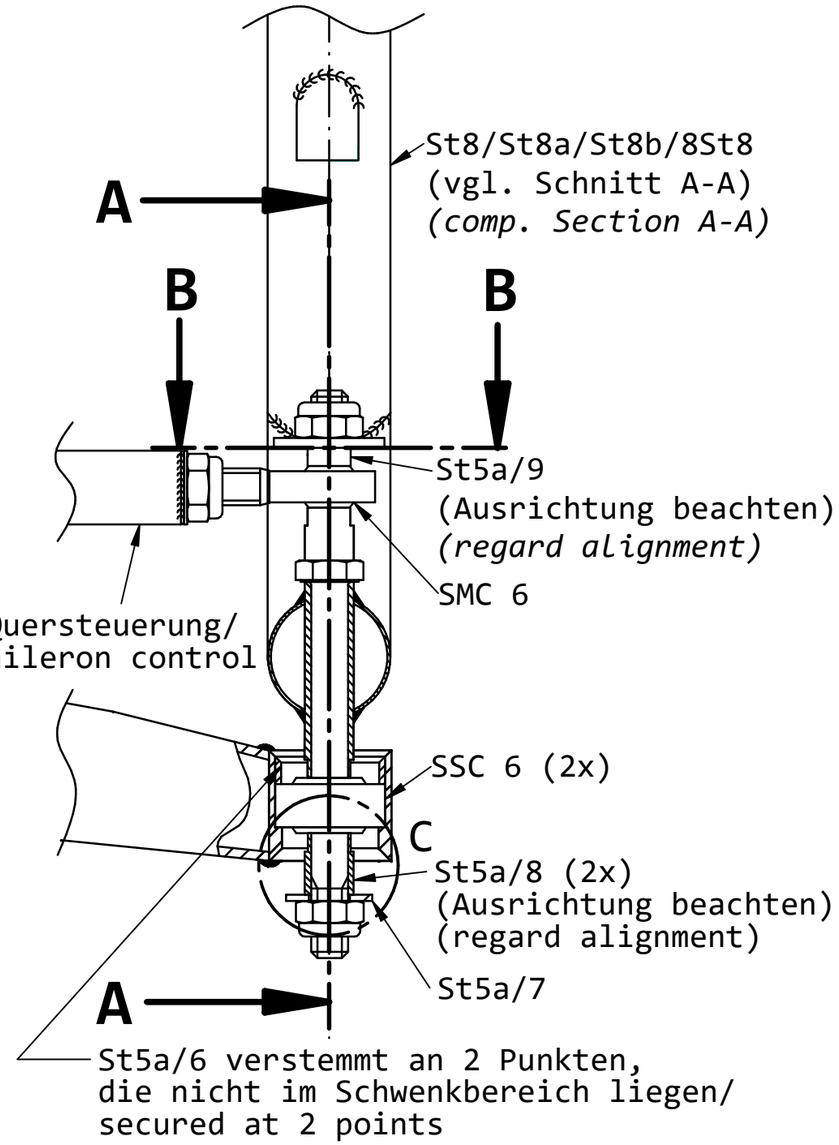
Within the automatic elevator connection there should be no free play noticeable in the zero position when the elevator is moved at its trailing edge.

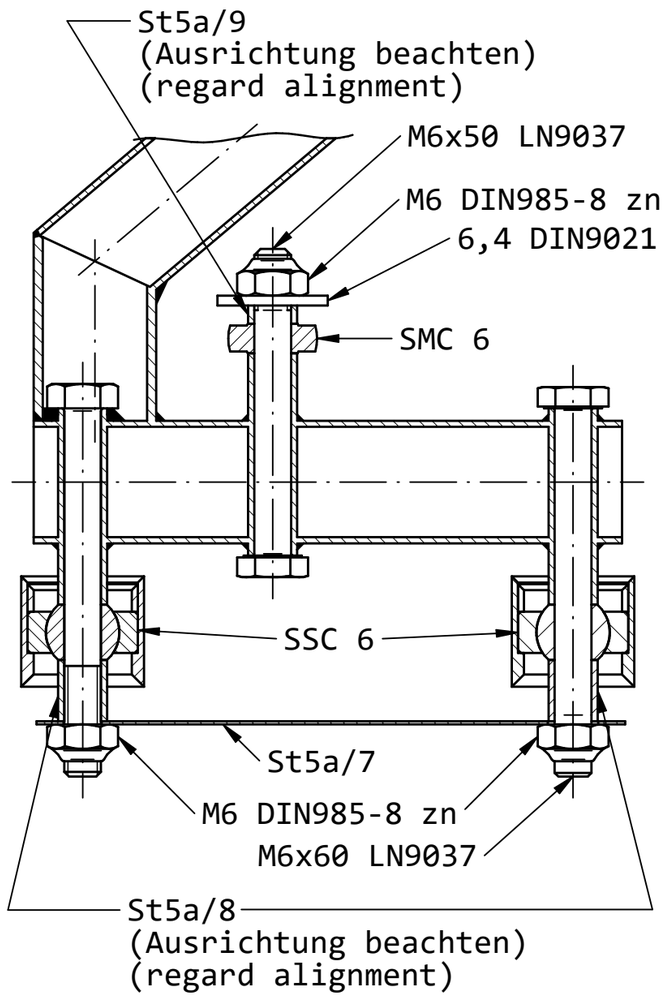
Any free play can be reduced by screwing in the adjustment screw on the automatic connector funnel.

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.

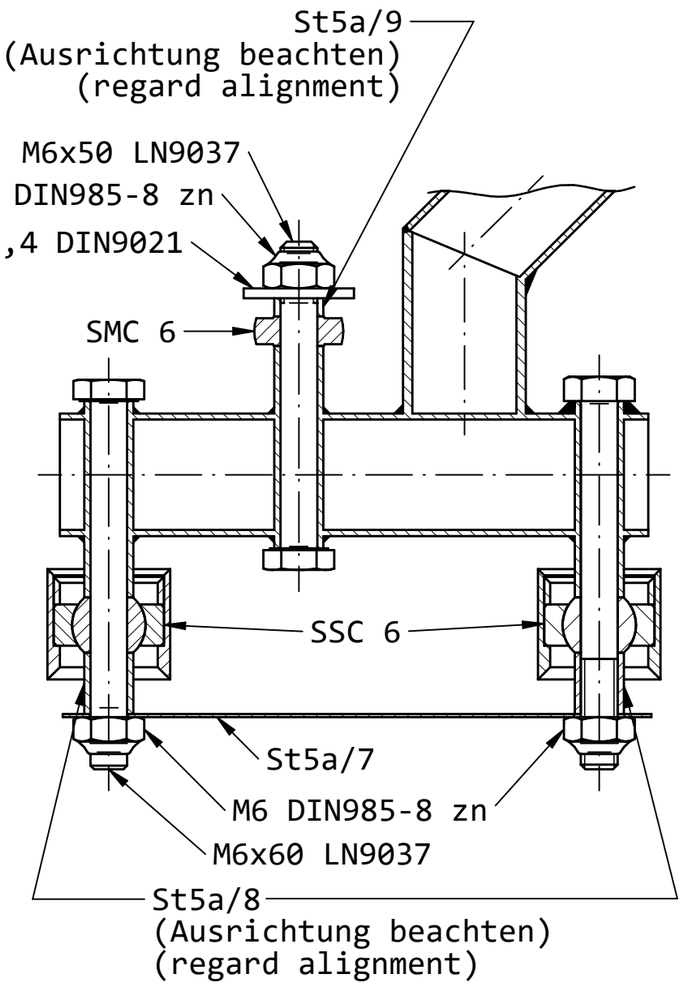
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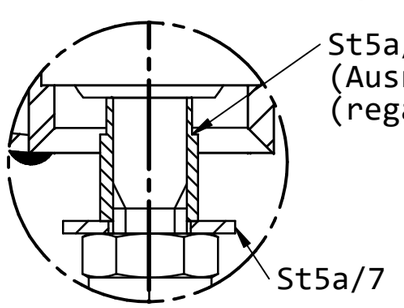




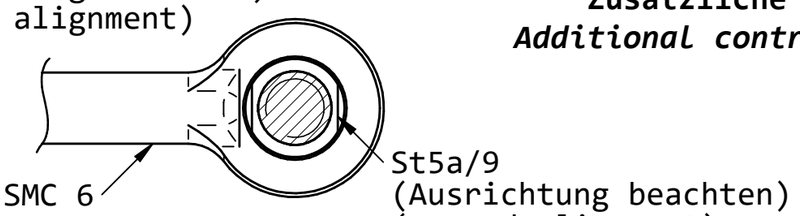
A-A
(bei/with St8/St8a/8St8)



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

INCH / MILLIMETER