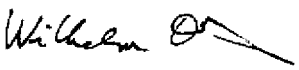
Recommendations to order spare parts

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 of Variant DG-400	December 2009
0.2	0.12, 0.13, 1.10, 1.11, 1.13, 1.19, 1.25, 2.1, 2.2, 2.6, 3.2, 3.6, 4.8 - 4.10, 4.12, 4.16, 5.1, 5.2, 6.1 - 6.3, 8.1 – 8.4, Checkliste, SI 1/86/2, L'Hotellier Instructions for the maintenance M 10.01, SI 61/06, 4R14, TN825/46, 4E30, 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, 0.9, 0.12, 3.3, 3.6, 3.7, 8.2, diagram 8, delete diagram 8a	Fuel hoses TN DG-SS-02	October 2016
2	0.1, 0.5, 8.3	TN DG-SS-03 Rectifier-Regulator	October 2017
3	0.1, 0.3, 1.2, 1.3	TN DG-SS-09 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, 0.7, 0.11, 1.2, drawing 1 St 038	TN DG-SS-10 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	"			
	0.9	"	October 2016		
	0.10	"			
	0.11	"	September 25		
	0.12	"	October 2016		
	0.13	"			
1	1.1	December 09			
	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	"			
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	1.15	"			
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	1.19	"			
	1.20	"			
	1.21	"			
	1.22	"			
	1.23	"			
	1.24	"			
	1.25	"			
	1.26	"			
	1.27	"			

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List of effective pages (continued)

Enclosure	issued	replaced	replaced
Checklist for maintenance and inspection	Dec. 09		
Service Info 1/86-2 Hotellier control quick connectors	30.11.92		
Installation sketch EFWK "landing gear doors"	Oct. 87		
Drawing W 33 special wrenches	March 88		
Drawing W 34 special wrenches	March 88		
Installation sketch EFK additional tow hook	Oct. 85		
Installation sketch EOD Dräger oxygen system	30.11.89		
Installation sketch 4EP ELT (3) ELT Pointer	May 6, 91		
L'Hotellier Instructions for the maintenance M 10.01	03/94		
Drawing 4M71 Ducati ignition boxes	April,92		
Service-information 0-2/92 engine test run	March 92		
Service-information 0-4/92 Hotellier quick connectors securing sleeves	Nov. 92		
TN 826/34 inspection airbrakes incl. Working instructions No. 1 and No. 2	Oct. 96		
Service-Information 61/06 Motor with gear and brake for spindle drive	09.11.06		
Drawing 4R14 Spindle drive assembly	12.12.06		
TN 826/46 Power plant ignition system incl. Working instructions No. 1 and No. 2	23.08.06		
Drawing 4E30 Modification of the wiring for Ducati electronic ignition boxes 432372501	14.07.06		
Service Info 63/07 with working instruction No. 1 for TN826/22 and drawing 4M81	28.03.07 28.03.07		
Drawing 1 St 038 Control Column Safeguard	01.09.25		

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Enclosures

Checklist for maintenance and inspection

Service Info 1/86-2 Hotellier control quick connectors

Installation sketch EFWK "landing gear doors"

Drawing W 33 special wrenches

Drawing W 34 “ “

Installation sketch EFK additional tow hook

Installation sketch EOD Dräger oxygen system

Installation sketch 4EP ELT (3) ELT Pointer

Hotellier Instructions for the maintenance M 10.01 A

Drawing 4M71 Ducati ignition boxes

Service-information 0-2/92 engine test run

Service-information 0-4/92 Hotellier quick connectors securing sleeves

TN 826/34 inspection airbrakes incl. Working instructions No. 1 and No. 2

Service-Information 61/06 b Motor with gear and brake for spindle drive

Drawing 4R14 Spindle drive assembly

TN 826/46 Power plant ignition system incl. Working instructions No. 1 and No. 2

Drawing 4E30 Modification of the wiring for Ducati electronic ignition boxes 432372501

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

Drawing 1 St 038 Additional control column safeguard acc. to TN DG-SS-10

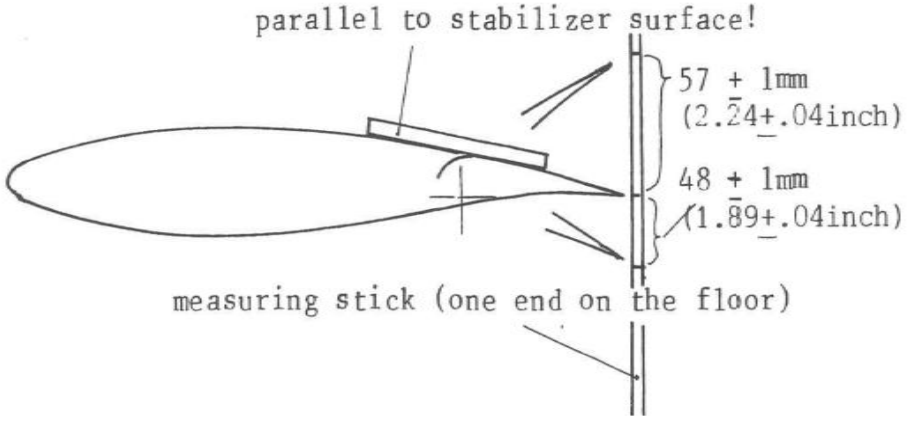
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1.3 Elevator deflections and adjustment

1.3.1 Control circuit - see diagram 1 and drawing 1 St 038

1.3.2 Elevator deflections and tolerances

Up 57 ± 1 mm (2.24±.04 inch)
Down 48 ± 1 mm (1.89±.04 inch)
measured 150 mm (5.9 inch) from. hinge axis.
The adjustment is made at the base of the control column. To measure displacement lay a straight edge over the elevator and trailing surface of the stabilizer (which is flat in this area). The straight edge must lie parallel to the stabilizer surface. Holding a measuring stick with one end on the floor mark the 0 point on the stick. Then mark the up and down displacements from this zero point.



1.3.3 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.

1.3.4 Elevator control circuit free play

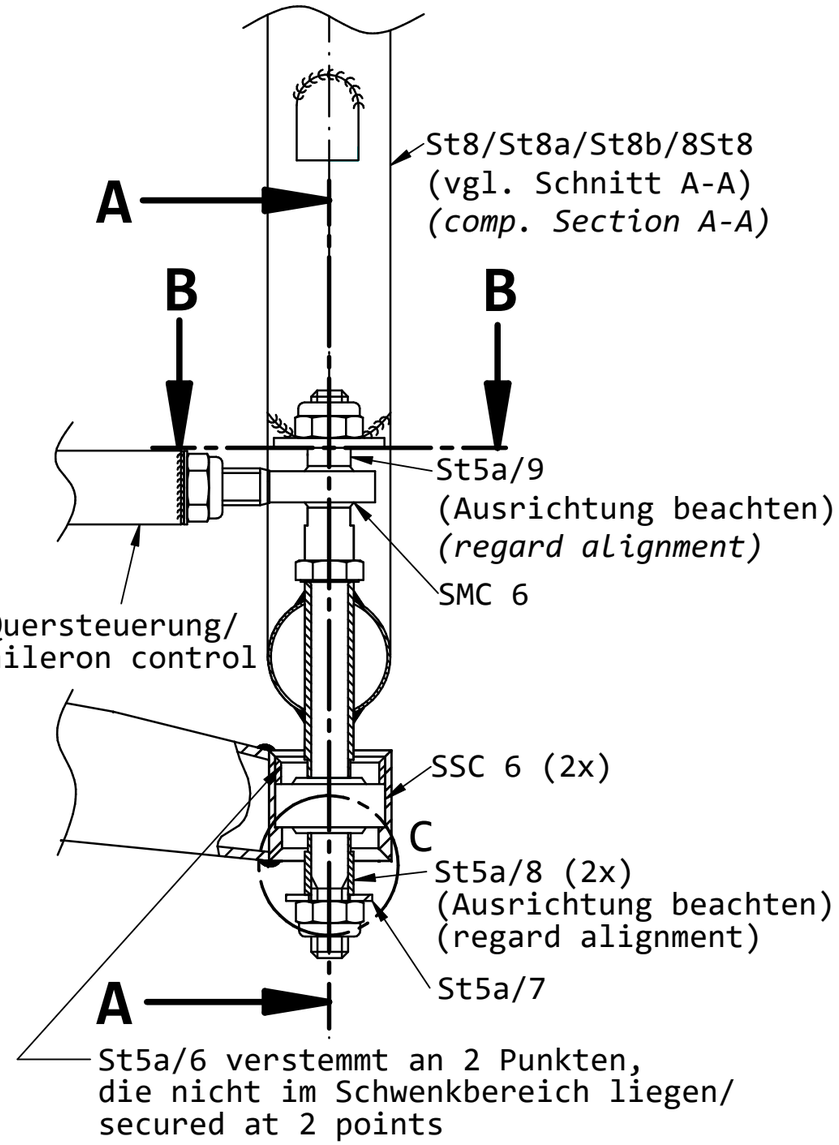
The play at the top of the control stick must not exceed ± 1.5 mm (± 0.06 in.) when the elevator is firmly held in neutral position.

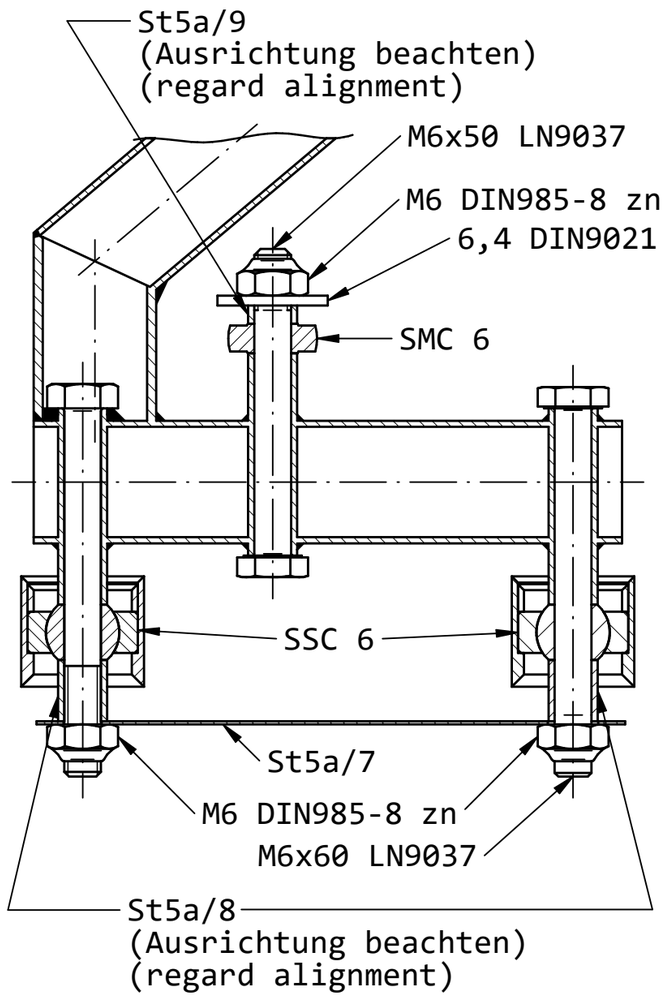
Within the automatic elevator connection there should be no free play noticeable in the zero position when the elevator is moved at its trailing edge.
Any free play can be reduced by screwing in the adjustment screw on the automatic connector funnel.

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.

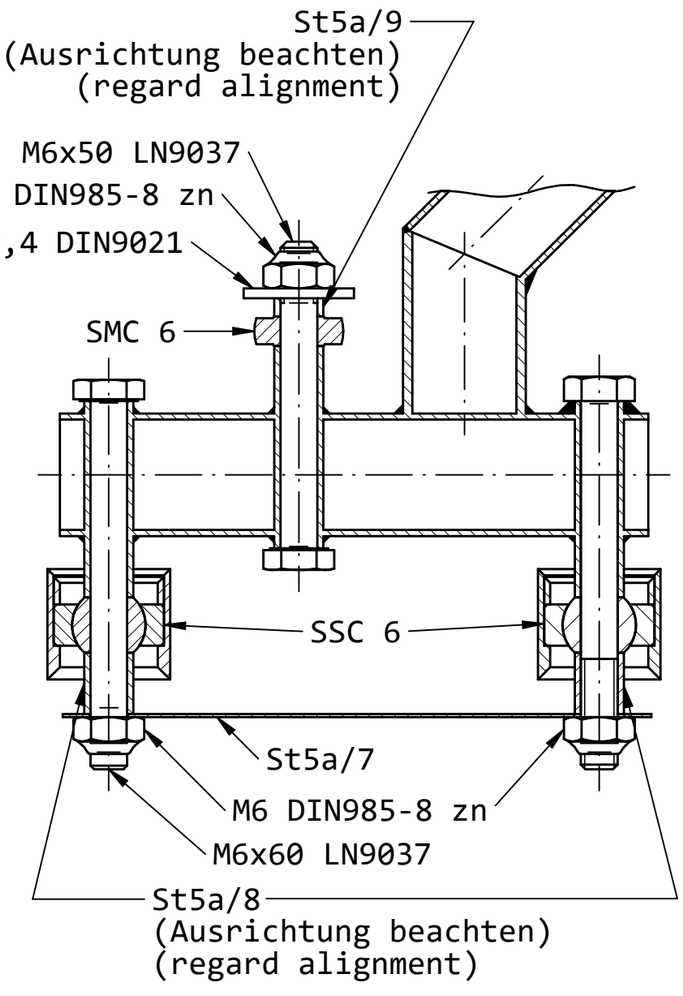
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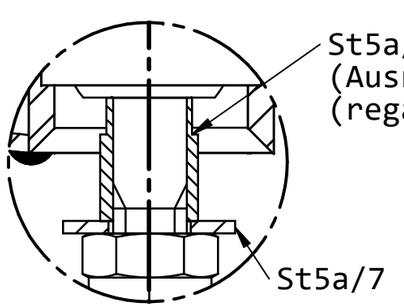




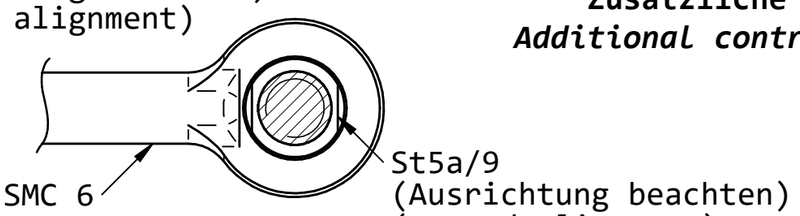
A-A
(bei/with St8/St8a/8St8)



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