0 General

0.1 Manual amendments

| U.I 1 | | 3 | |
|--------------|----------------------|----------------------------------|----------------|
| No. | Page | Description | Date |
| 0.1 | all | Combination of the initial | December 2009 |
| | | Maintenance Manuals of the | |
| | | Variants DG-200, DG-200/17 | |
| | | and DG-200/17C, new | |
| | | standardized format | |
| 0.2 | 0.7, 1.1, 1.2, | Miscellaneous changes to the | December 2009 |
| | 1.7, 1.8, 1.10-1.12, | contents of the latest | |
| | 1.15-1.17, 1.20, | amendments of the initial | |
| | 1.21, 1.26, 2.1-2.3, | maintenance manuals | |
| | 4.3 - 4.6 | | |
| 1 | 0.1, 0.3, 1.4, 1.23, | TN DG-SS-06 manual revision | September 2020 |
| | | | |
| 2 | 0.1, 0.3, 1.25, 1.26 | TN DG-SS-09 | December 2023 |
| | | adjustment of elevator free play | |

Maintenance Manual DG-200

| Section | | issued | replaced | replaced | replaced | | |
|---------|-------|-----------------------|-----------------|----------|----------|--|--|
|) | 0.0 | | | | | | |
| | 0.1 | see manual amendments | | | | | |
| | 0.2 | " | | | | | |
| | 0.3 | | " | | | | |
| | 0.4 | | " | | | | |
| | 0.5 | December 09 | | | | | |
| | 0.6 | " | | | | | |
| | 0.7 | " | | | | | |
| 1 | 1.1 | December 09 | | | | | |
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| | 1.4 | " | September 20 | | | | |
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| | 1.22 | " | September 20 | | | | |
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| | 1.24 | " | December 23 | | | | |
| | 1.26 | " | December 23 | | | | |
| 2 | 2.1 | December 09 | | | | | |

0.2 List of effective nages

- 2.2 " "
- 2.3

1.13 Free play in Control Systems

Aileron free play:

Measured with the ailerons neutral and the opposite aileron fixed in position. The maximum allowable play in the ailerons is 2 mm (measured 123 mm from the hinge axis). When there is too much play the bearing (part no. 2 F 7/1) must be replaced. Hold the other aileron firmly in place when conducting this measurement. With both ailerons held neutral firmly, the play at the top of the control stick must not exceed ± 1.5 mm (± 0.06 in.).

Elevator 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.

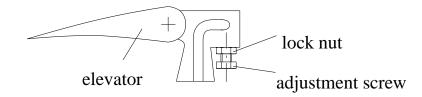
For this reason after adjusting the free play it is necessary to check if the roller can be moved without force in the funnel.

To accomplish this, remove the compete rod end with the roller or remove the roller from the rod end and stick it on an 8 mm f7 pin and move the roller in the funnel. Prior to removal of the rod end mark it's position.

If the roller can't be moved without force completely zo the front you must turn back the adjustment screw and bend back the sheet metal which was bent by the adjustment screw. Then adjust the free play again.

In case the roller has too much free play on the rod end or if the roller is no more round you must replace the roller by a new one 2L24.

In case the glider was operated for a longer time with the adjustment screw turned in too far the rod end must be replaced by a new one 2L19/1.



After completion of this work check the elevator displacements and adjust if necessary.

Maintenance Manual DG-200

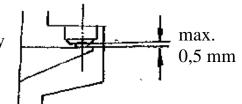
Wing flap free play:

(measured 145 mm from hinge axis)

The maximum allowable play measured at the trailing edge of the flap is 3 mm. If the play exceeds this amount the pin in the flap drive ball must be replaced with an oversize pin. (part no. 2 St 14/3). Hold the other flap firmly in place when conducting this measurement.

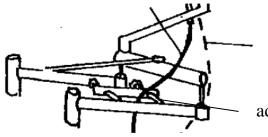
Rudder free play:

The maximum allowable vertical play in the rudder hinges is 0,5 mm measured at the top hinge.



1.14 Repair of the bowden cable in the parallelogram stick mechanism

In case of replacement it is of importance that the cable should be placed between the two parallelogram arms of the control column (see drawing).



Placement of the cable outside the parallelogram might lead to blocking of the control mechanism.

adjustment screws

1.15 Tangential play of the wings

1.15.1 At the fuselage

Rig your glider. Pull the wings forward and backward and observe at which lift pin you can find the maximum tangential play.

Derig the glider. Sand the flange of the lift pin and glue a thin washer inner diameter 16,5 mm 0,25 mm of thickness with a suitable metal adhesiv (Stabilit Express, Decon etc.) to the flange.

Mark the thickness of this washer at the fuselage side near the lift pin. Rig the glider again and check if tangential play is eliminated.

1.15.2 At the wing tip joint (DG-200/17 & DG-200/17C)

See wing.

Washer inner diameter 10,5 mm 0,25 mm of thickness.

Mark the thickness of this washer at the rib of the wing tip.

1.15.3 Tolerances

Free play should be adjusted if you hear a rattling sound when moving the wings backwards and forwards.

The max. amount of free play can also be determined as follows: Measure the free play at each lift pin with a feeler gauge. Sum up the free play.

At fuselage: The free play of all 4 pins together should not exceed 1 mm. At the wing tip joint: The free play of the 2 pins together should not exceed 0.5 mm.