Technical Note
No. 359/17 Revision 1

Subject	:	Flutter occurrence when flying with winglets according to TN359/17
Effectivity	type:	DG-single seaters
	variants:	All DG-300 variants, if equipped with winglets according to TN359/17
Accomplishment	:	Prior to next flight with winglets according to TN359/17
Reason	:	During flutter flight testing of the new neo Winglets also tests with the existing winglets according to TN359/17 have been performed for comparison. Doing this, it could be detected, that when flying with water ballast in the wings the requirement to be free of flutter up to 1,1 x VNE could not be met. Therefor VNE must be reduced for flight with winglets as well as the max. mass. The limited values of TN359/24 instruction A have been chosen for this purpose. In addition, it is no more allowed to use water ballast in the wings when flying with winglets. As for these measures the ASI markings must be changed the reduced airspeed values are also applicable for flight without winglets. The correct aileron sealings may also be important and have to be checked.
Instructions	:	1. The limitations (airspeeds and masses) will be reduced, in addition it is no more allowed to use water ballast in the wings when flying with winglets, see flight manual section 7.3. 2. Manual revision: Exchange the following manual pages against new pages issued November 2024 marked with 359/17 revision 1and TN DG-SS-08. Respect the marked changes. Flight manuals of all DG-300 variants: 0.1, 2, 7.1 – 7.5 Maintenance manual DG-300: 0.1, 0.3, 0.4, 0.6, 4.6, 6.1, 8.8 – 8.14 (diagrams) **Note:** The changed manual pages are also applicable for neo Winglets according to TN DG-SS-08. 3. Change the ASI markings according to AFM section 7.3 item changes to section 2.3, if not already done when performing TN359/24. 4. Exchange the Cockpit data placard and the airspeed placard according to maintenance manual diagram 13. 5. Check if the aileron sealings are in conformity with one of those described in the MM section 4.6 and in order. If this isn´t the case the sealings must be renewed. **Note:** In contrary to the description in the existing MM an additional Mylar sealing on the wing upper side is acceptable for all variants.
Material	:	Manual pages see above Cockpit data placard DG-300 ELAN or DG-300 Club ELAN or DG-300 ELAN Acro or DG-300 Club ELAN Acro If necessary, material for new sealings see MM DG-300 section 4.6 Nachrüstsatz neo Winglets DG Artikelnr. Nachrüstsatz Flügelteilung DG Artikelnr.
Weight and Balance	:	influence negligible

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Remarks : Manual pages may be downloaded from the DG website.
A set of cockpit placards can be ordered at DG with specification of the serial number, registration, year of production, minimum- and maximum cockpit loading and if TN359/24 instruction A (Reduction of operating limitations) is applicable.

Use only genuine spare parts.
Parts (except for standard parts) and material kits shall only be installed if an EASA Form 1 is existent for these products.
The DG invoice is valid as “Certificate of conformity” for standard parts.

Instructions no. 1, 2, 4 and 5 may be performed by the pilot/owner himself. The actions are to be inspected and released by the pilot/owner (according to MLA. 801 (b) 3. for EASA registered aircraft).
Instruction no. 3:

1. EASA registered aircraft: The pilot/owner is not allowed to perform the actions. The actions have to be performed and released according to ML.A.801 (b) 1.
2. Non EASA registered aircraft: The actions have to be performed in a licensed workshop. All instructions are to be inspected and entered in the aircraft logs by a licensed inspector.

If you have any questions concerning this TN please contact DG Aviation:
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Bruchsal, date:
13. Jan. 2025



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