



- Subject : neo-Winglets at the wing tips
- Effectivity type: LS sailplanes
variants: variant LS6-b, all serial numbers
- Accomplishment : Optional
- Reason : To improve flight performance and handling removable neo-Winglets have been designed.
A new stress analysis of the wings was necessary to prove the strength with winglets: This analysis resulted in a reduction of the max. mass of the non-lifting parts by 13 kg (29 lbs). The max. take-off mass remains at 525 kg (1157 lbs).
- Instructions : 1. Installation of the wing parting and the winglets according to working instructions TM6043 FE-33-01-01a.
2. Exchange the following manual pages against new pages issued June 2021, marked with TN6043. Respect the changes marked in the right hand margin.
Flight manual LS6-b: pages 1-1, 1-2, 1-5, 2-3, 9-8 up to 9-11
3. Perform a weight and balance of the sailplane with and without Winglets. Determine the max. fuselage and cockpit loading according to the instructions in FM LS6-b section 9.7. item 2.4 on page 9-9
4. The values of the new weight and balance have to be entered in the following locations:
 - Cockpit Loading Plan, FM LS6-b: page 9-1
 - Cockpit data placard (values without neo-Winglets)
 - Below the instrument panel cover (values without neo-Winglets)5. Install an additional placard see FM LS6-b section 9.7 item 2.11 on page 9-9 clearly visible at the right cockpit wall below the data placard. Enter the (reduced) fuselage and cockpit loads for operation with neo-Winglets in this placard.
- Material : Working instructions TM6043 FE-33-01-01a including the material mentioned therein
Manual pages, see above
- Weight and balance : A new weight and balance has to be performed



- Remarks : Instruction No. 1, 3, 4 and 5:
1. EASA countries: The actions have to be performed according to the regulations of the Part ML and released according to ML.A.801.
 2. Non EASA countries: 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.

Instruction no. 2 may be executed by the pilot/owner himself.
The correct implementation is to be inspected and entered in the aircraft logs by the pilot/owner.

The limitation of the max. mass of the non-lifting parts by 13kg (29 lbs) might lead to a lower allowed max. cockpit load.

Manual pages and working instructions will be shipped with the material.

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.

If you have any questions concerning this TN please contact DG
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Bruchsal, date:
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Modifications are approved by EASA as major change, date October 11, 2021, under Approval No. 10077441.

Additional data placard see instruction 5

with neo-Winglets installed		
max. payload in fuselage	kg	lbs.
max. cockpit load	kg	lbs.