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Subject :	Manual revisions	
Effectivity :	Type: LS Sailplanes Variants: LS1-0, LS1-a, LS1-b, LS1-c, LS1-d, LS1-f. LS1-f (45) LS4, LS4-a, LS4-b LS6, LS6-a, LS6-b, LS6-c, LS6-c18, LS6-18w	
Accomplishment :	Instructions 1 – 3: Prior to the next maintenance or next annual December 31. 2011 Instructions 4 ÷ 6: optionally	l inspection, latest
Reason	New flight and maintenance manuals have been issued for the LS1 variants. New maintenance manuals have been issued for LS4 and LS6 variants.	
	Manuals of different variants have been combined into one ma reasonable. All manuals have been updated to the latest level of	
	In the LS1 flight manuals the recommended winch launching s for the weak links have been changed.	speeds and the data
	Flight manual changes for LS4, LS4-a and LS4-b are resulting manual changes for the LS4 variants. As the flight manuals we only single pages must be exchanged.	
	The placards of all LS1 variants are no more up to date and mu	ist be exchanged.
	The data for in-flight C.G. and max. mass of the non lifting part for all LS4 variants although the gliders are equal concerning s aerodynamics. The data and procedures of the latest variant LS for the other variants too. This means that cockpit load limits of the LS4 may be increase of the non lifting parts of LS4 and LS4-a may be increased. The valid for variants LS4 and LS4-a also.	structure and 64-b will be adopted ed and the max. mass
	In the LS4-b AFM a fixed value for the max. TOW without wa This value will be replaced by the equation Wmax= Wnon lifti	
	In the initialLS4-b maintenance manuals the placard for "Cano Release" is not shown.	ppy Emergency
Instructions :	 Exchange of manuals: LS1-0, LS1-a, LS1-b, LS1-c, LS1-d: Flight manual for the sailplane LS1 issue May 2011, Maintenance manual for the sailplane LS1 issue May 2011 	
	LS1-f. LS1-f (45): Flight manual for the sailplane LS1-f issue May 2011, Maintenance manual for the sailplane LS1-f issue May 2011	
	LS4, LS4-a, LS4-b: Maintenance manual for the sailplane LS4 issue May 2011	
	LS6, LS6-a, LS6-b, LS6-c, LS6-c18, LS6-18w: maintenance manual for the sailplane LS6 issue May 2011	
	All variants: Those manual pages or other documents which h with regards to contents are listed in the amendments list of the The new or amended text is indicated by a black vertical line a margin of the revised page and should be regarded	e respective manual.
	2. Exchange the following flight manual pages against new pagmarked with TNLS-S-01. Respect the changes marked in the risk of the transformation of	ight hand margin. 6-5

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	3. All LS1 variants: exchange all placards against new ones according to maintenance manual section 6.	
	4. LS4: Determine new cockpit loading limits according to maintenance manual LS4 section 2.3 and enter into the cockpit data placard and in the flight manual.	
	5. LS4 and LS4-a: Determine new max. mass of non-lifting parts according to maintenance manual LS4 section 2.4.	
	6. LS4, LS4-a and LS4-b: Determine new max. TOW for flight waterballast from existing weighing report with new max. mass o determined under instructions 5 (LS4 and LS4-a) and equation W lifting parts + Wwings, calculate new max. cockpit load and entermanual and in the cockpit data placard.	f non-lifting parts Vmax= Wnon
	7. LS4-b: Check if the placard for "Canopy Emergency Release" according to MM LS4 section 7.3. Install the placard if not existing	
Material	Manuals see instructions 1 These manuals have to be ordered from the TC holder DG Flugze	eugbau GmbH.
	They are only valid for the aircraft ser.no. printed on the cover pa	ige.
	Only LS4, LS4-a and LS4-b: Flight manual pages see instructio	n 2
	Only all LS1 variants: all data and limitation placards see instru	ction 3
	Only LS4-b: placard for "Canopy Emergency Release" if not ins	talled
Weight and balance	For instructions 4 up to 6 a new weight and balance report must b	e produced.
Remarks :	The instructions $1 \div 3$ may be executed by the pilot/owner himsel inspected and entered in the aircraft logs by a licensed inspector a next annual inspection.	
	Maintenance or annual inspections are only allowed to be carried manuals actually issued for the respective ser. No. are existent.	out if the valid
	 Instructions No. 4 ÷ 6: EASA countries: The actions have to be performed in a Part organisation, or in a Part M, Subpart F approved organisation regulations of the Part M and released according to M.A.801 Non EASA countries: The actions have to be performed in a workshop. All instructions are to be inspected and entered in by a licensed inspector. 	n according to the licensed
	Due to the new manual editions EASA will publish a new TCDS the type designation "LS Sailplanes" which combines the LBA T 345, 357 and 375.	
	The existing manuals of the variant LS1-e remain valid.	
	The new manuals for the LS3 and LS7 variants which are contain TCDS too, have already been published with TN 3053 and TN 70	
Bruchsal, date: June 15. 2011 Wilhelm Dirks Author: Wilhelm Occ	Modifications approved by EASA Date 2.09.2011 under Approval No. 10036360	