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Subject	: Additional tow hook for aerotow			
Effectivity	: Sailplanes DG-300 all models only as an option			
Accomplishment	: non, optional			
Reason	: In addition to the C.G. tow hook a tow hook on option. The installation place is below the instru-Postfactory installation is possible.			
Instructions	drawings R83 and R84. For postfactory installation the installed co leading to the C.G. hook can be used for th according to plan EFK. Remove the pulley panel. Make a cutout in the left wall under	tallation the installed control cable is to cut so that the cable hook can be used for the new installation. Cut the nylon tubes EFK. Remove the pulley and its cover under the instrument ut in the left wall under the instrument console referring to stallation of the GFRP part R85. Grind away the upper and		
	Assemble the bulkheads R81 and R82 prov assembly exactly in the middle of the fusel joints for the bulkheads and a cutout diame tow hook see drawing R83	lage and mark the position of the glued		
	Next you have to alter the position of the p installation plan ED/l. The lines should cor (3.5 in.) above the fuselage bottom. If not, installation of the tow hook.	me out of the GFRP wall min. 90 mm		
	Mill a cutout 2 mm deep for the rubber cov surface. The nylon line for the pitot pressur prevent a wrinkle in the tube insert a dia. 3 prior to heating. The line should be bend so hook. The plastic hose for the pitot pressur The length of the static hoses are 140 mm (measured from the T-tube fitting.	re is to bend to the left by heating it. To 3.2 mm (1/8 in.) control cable in the line o that there is no interfering with the tow re is to lengthen by 130 mm (5.1 in.).		
	To prevent from chafing at the tow hook the cushioned clamp dia. 22 x 15, which is to be the pedal adjustment device. The original be x 30 DIN 912-8.8. Roughen the glued joint areas at the bulkhed Assemble the tow hook with the lever R79 Mix the resin 50 g (1.76 ounces) MGS L28 L286. Brush all glued joint areas with the r mixture with cotton flocks and apply on the and the bulkheads with the towhook. Fix the with 2 layers of glasfibre fabric 92125. Curing procedure: 12 h room temperature, Assemble the bellcrank R80 provisionally adjustment screw R79/3 to the bulkhead and distance of 75 mm (2.96 in.) of the axes. In and Nicopress sleeves according to plan EI bellcrank R80 and press the sleeves with a	be fixed at the left upper mounting bolt of bolt is to be exchanged against a bolt M6 eads, the fuselage and the wall R85. //l and the bulkheads. 85 and 19 g (0.67 ounces) hardener MGS resin mixture. Thicken some of the resin the glued joint areas. Glue in the wall R85 the nylon tubes according to plan EFK 18 h 55°C (131°F) with the clevis rod ends and the and the towhook. Adjust R79/3 for a ansert the control cables with thimbles FK and mark the positions. Take out the		

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	 Finally assemble the bell crank. Adjust the adjustment screw R79/3 so that the cable leading to the C.G. tow release is just not tensioned. Lock the fork rod ends with the counter nuts. Glue in the rubber cover according to drawing R86 with Pattex contact adhesive or similar. Cover the joint with thin plastic tape. <u>2. Function test</u> Carry out a function test at the front release and at the C.G. release. For testing use a rope with the original Tost double rings (marked LN6 5091 - Tost). Pull the rope parallel to the lower fuselage surface with min. 50 daN (110 lbs.) to the front. Release from the cockpit Ensure for safe release with low pilot forces. 			
	3. Manual pages	-	-	
			be exchanged against pages iss instructions marked with a bar	
	flight manual	. 4	list of amendments tow hooks tow hooks	
	maintenance n	nanual 33 0 3 11.	tow hooks	
	:	14 file plan EFK behin	tow hooks nd diagramm 4	
Materials :	with bush R79/2 ar 1 lever R79/1 1 adjustment screw 1 bellcrank R87 1 clevis rod end G 1 clevis rod end G 1 nut DIN 439-8 M 2 clevis pins 6 x 18 2 cotter pins 1,5 x 600 mm (24 in.) cc 1 bolt M6 x 40 LN 2 bolts M6 x 65 DI 5 self locking nuts 9 washers 6.4 DIN 3 Nicopress sleeve 2 thimbles 3 mm D 1 plain loop type c	nd bolt M 6x 85 DI 7 R79/3 6 x 12 DIN 71752 6 x 24 DIN 71752 16 left hand thread 16 8/16,5 DIN 1434 zr 12 ontrol cable dia. 3.2 9037 N 912-8.8 zn M6 DIN 985-8 zn 125 St zn s 28-3-M copper-z DIN 6899 A ushioned clamp dia 6 (rubber from car y opr. 100 x 100 mm L285 50 g (1,76 ou 286 19g (.67 ounce g (3,53 ounces)	left hand thread n 2 mm (1/8 in.) LN 9374 inc plated a. 22 x 1.5 wheel tube 2 mm (.08 in.) thick (4 x 4 in.) unces) es))
	Drawings: Installation plans:			

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Weight and balance :	 The weight increases by 0.9 kg (2 lbs.) at 1260 mm (49.6 in.) in front of datum. For postfactory installation calculate the new empty weight C.G or carry out a new C.G. weighing. Write a new C.G. weighing report. 		
Remarks :	: All instructions are to be executed by the manufacturer or by a licensed workshop and to be inspected and entered in the aircraft logs by a licensed inspector.		
Bruchsal, date: Oct. 29. 1985 Author: Dipl. Ing. Wilhelm Dirks	LBA – approved: the German original of this TN has been approved by the LB. 1986 and is signed by Mr. Skov.	TN has been approved by the LBA under the date of 28. Jan. Skov.	
(<i>retyped July 18. 2001</i>) Revision 1 14.02.2017	R87 instead of R80. R88 instead of R83		

W. Dirks