Hansjörg Streifeneder	
Glasfaser - Flugzeug - Service GmbH	
LTB II-A 95 u. I-C 12	
Hofener Weg, Tel. 07382/1032	
7431 Grahenatetian	

TECHNICAL NOTE NO. 501 - 3

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03

No. of pages

Affected

Sailplane model " BS 1 "

- all serial numbers -

Subject :

Rudder gimbal drive

- rear actuator arm -

Reason

Failure of the actuator arm caused by loads applied when regularly lifting the fuselage by its rudder. and/or when fuselage has broken.

Urgency :

The actuator arm must be replaced not later than March 31st, 1987.

- Actions :

The faulty part, made according to drawing No. 301-45-10, must be replaced by an improved actuator arm, made in accordance with drawing No. 301-45-13.

Working instructions:

- Remove rudder by disconnecting the tail chute, removing the M4 bolt securing the actuator arm to the rudder (located in a cavity at the lower end) and detaching the fairing between the two elevator halves.
- Remove horizontal axle from gimbal drive by removing the castellated nut.
- 3. Remove both castellated nuts from rudder actuator arm and pull mounting bolts inwards and off.
- re-inserting mounting bolts. Make sure that bolts are fully home so that bolt heads contact inner face of diagonal bushings also take care that the actuator arm shows no axial play when seated on these bolts, then only tighten castellated nuts lightly and secure with split pin.

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Actions (ctd.)

5. Re-attach rudder gimbal drive to its mount on the lower end of the fin by inserting the horizontal axle with its spacers. Tighten castellated nuts lightly and secure with split pin. Again, make sure that, with the assembly completed, there is no axial play, if so, proper shims must be used to eliminate the play.

On the other hand, by overtightening the castel-

On the other hand, by overtightening the castellated nuts, stiffness or deformation of the rudder drive or a misalignement of its axles may occur.

- 6. Re-attach rudder and tape it to fin when in proper position to avoid any aft movement.
- 7. Slide flange bushing onto actuator arm and secure in position by a wedge placed between bushing and cavity wall. Make sure that the bushing's 4 mm holes are horizontal.

Punch mark actuator arm on both sides at the center of the bushing's 4.0 mm holes and drill arm to a diameter of 2.0 mm. With these holes properly aligned, drill to a diameter of 3.8 mm, then ream to 4.0 mm. If the 2.0 mm holes are not aligned, it is possible to use a round needle file for centering, then drill and ream to proper diameter.

8. Insert locking bolt and secure with M4 stop nut.

Materials

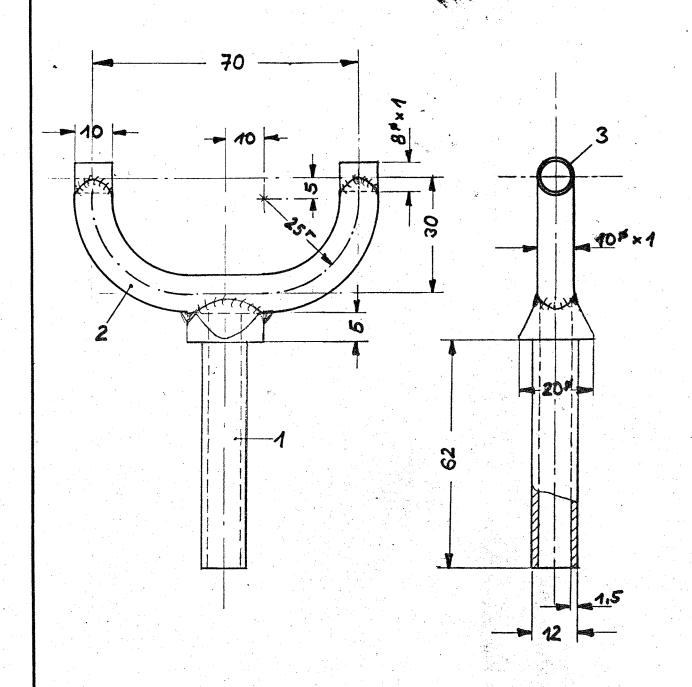
1 off rudder actuator arm made according to drawing No. 301-45 - 13

1 off M4 stop nut 3 off Split pins, 1.5 x 16 mm

Weight and C/G position:

Difference negligible

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Note.	Replacing the actuator arm must be d	one by
	Streifeneder Glasfaser-Flugzeug- Ser	vice GmbH
	only or by an approved repair statio	n.
	Only genuine parts made in accordance	e with
	drawing No. 301-45-13 must be used.	
	Proper accomplishment of the action	must be
	entered into the sailplane's log boo	k by a
	licensed inspector.	
'Supply source:	Hansjörg Streifeneder	
	Glasfaser-Flugzeug-Service	
	Hofener Weg	
	7431 Grabenstetten	
	FEDERAL REPUBLIC OF GERMANY	
Grabenstetten, September .	LBA-approved:	
Issued: * * Shefeu	edes	
(Streifeneder		



Im WIG-Verfahren mit Zusaizwerkstoff 1.7734.2 geschweiht. Grundiert mit Wash-Primer 42002 + Härter 40018. Decklackierung mit Nitro-Lack grau RAL 7003.

Pos. Nr.	Stück.	Renemating	Werkskill	Zehn. Nr. / Ahmah.	Gewida
2	1	Lenkerfinger Bügel	1.7734.4 1.7734.4		
3	2	Büchse	St 36		

MUSTERUNTERLAGEN



M1:1

Ruderlanker

301-45-13 Sh

12.3.1386 Skifu wh