Valentin GmbH & Co. Flugzeugbau KG Flugplatzstraße 18, 8728 Haßfurt Telefon: 0 95 21 - 20 41 Herstellungsbetrieb LBA I - B 27	Technical Note No. 329-003

Subject: Lower mounting of the rudder

Affected: Sailplane MISTRAL C (Type Certificate No. 329)
                all serial-nos.

Urgency: Action 1: Before next flight and after each 25
                          flight hours

                Action 2: March 31st, 1990

Reason: Failure of a rudder-mounting

Action 1:   a) Measure distance between web of fin and
                   center of swivel head.
                b) Remove swivel head
                c) Inspect threaded shank of swivel head for
                   deformation or cracks (magnifying glass 5x)
                d) If no objection:
                   Install swivel head reestablishing distance
                   measured in a)

Action 2:   Replace swivel head by mounting, acc. drawing
                no. TM 329-003 page 1-3.

Material: Material kit "TM 329-003" including the
                installation instruction and drawings is
                available from:

                        Valentin GmbH & Co
                        Flugzeugbau KG
                        Flugplatzstr. 18
                        8728 Hassfurt

Weight and
balance: Influence neglegible

Accomplishment and
certification: Action 1: By a qualified person, entry in the
                          sailplanes logbook.

                Action 2: In accordance with the installation
                          instruction by an approved service
                          station, certification by a licensed
                          inspector in the sailplanes logbook.

Hassfurt, August 30th 1989

Helmut Furt

LBA-approved:
The German original of this Technical
Note has been approved by the LBA under
the date of Sept. 12, 1989
and is signed by Mr. SKOV

The translation into English has been
done by best knowledge and judgement.
In any case of doubt the German original
is authoritative.

Installation Instruction
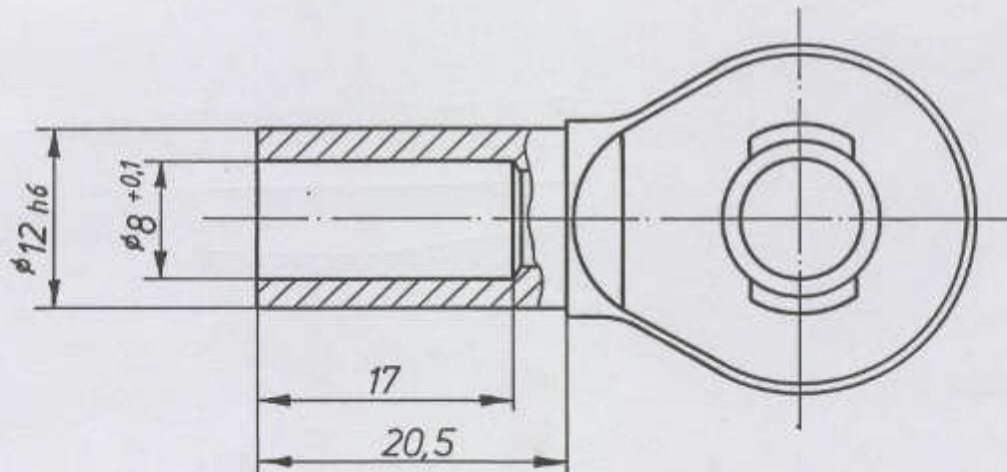
"Lower mounting of the rudder" TM 329-003

The lower mounting of the rudder consists of a fitting glued to the fin and a swivel head that is screwed into the fitting. The swivel head has to be replaced by a new mounting (drawing TM 329-003 page 1-3) according to the following instruction:

1. Disconnect the rudder from the controls and dismantle it.

2. Measure distance "C" (acc. drawing TM 329-003 page 3) before swivel head is removed, dismantle the swivel head.

3. Carefully bore the M8-thread out of the tube to remove it from the fitting and rub out the tube with a broach to ϕ 14 H7.

4. Adapt the swivel head with the case (acc. drawing TM 329-003 page 2) and reestablish the distance "C".

5. Drill the holes acc. to drawing TM 329-003 page 3 and rivet the swivel head with the case to the fitting.

6. Protect plain metal parts against corrosion by putting on some varnish.

7. Reinstall the rudder and reconnect it to the controls.

8. Let a licensed inspector certify the installation of the new swivel head and the accomplishment of the technical note in the sailplanes logbook.
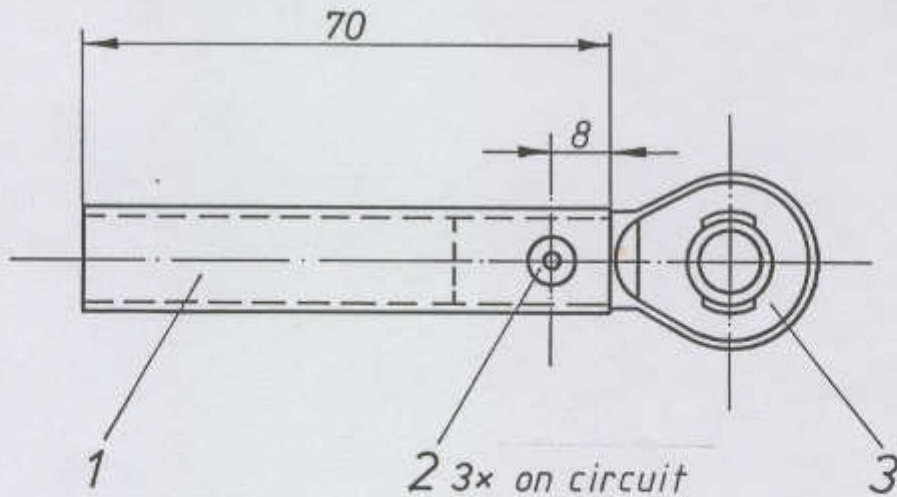
Hassfurt, August 30th 1989

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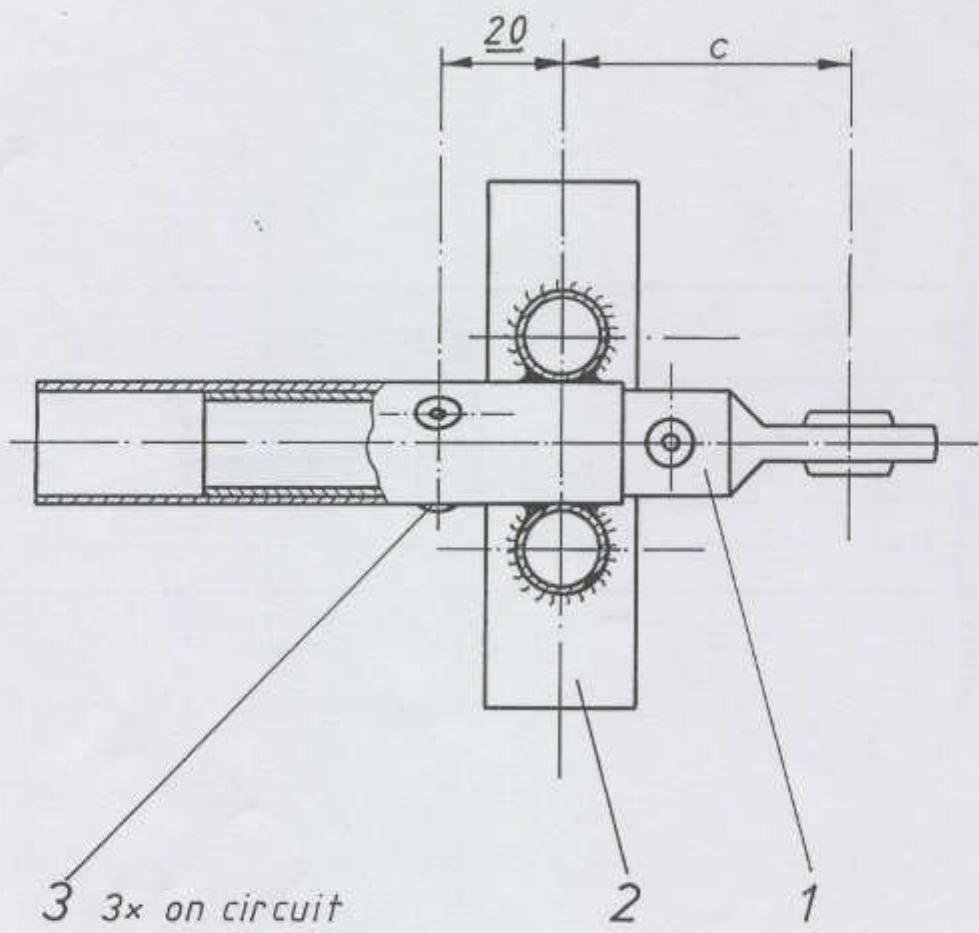Helmut Fendt

Touch up of swivel head EF 8

1. Turn over connection to $\varnothing 12_{h6}$

2. Bore the female thread up to $\varnothing 8^{+0,1}$

					DIN 7168 mittel		Maßstab 2 : 1		
							swivel head Durbal EF 8		
					Datum	Name	Mistral C lower mounting of the rudder		
				Bearb.	29. 8. 89	Büttner			
				Gepr.	30. 8. 89	Faut			
				Norm					
							TM 329-003		Blatt 1 3 Bl.
Zust.	Änderung	Datum	Name						

70

8

1

2 3× on circuit

3

3	1	Swivel head EF8	TM 329-003 pg. 1	
2	3	Rivet Ø 4,0 × 6,0		VA
1	1	Tube Ø 14 × 1 × 70		1.7734.4
Pos.	Quant.	Indication	Part no.	Material

DIN 7168
mittel

Maßstab 1:1

swivel head with case

						Datum	Name	Mistral C
					Bearb.	29. 8. 89	Büttner	lower mounting of the
					Gepr.	30. 8. 89	F.	, rudder
					Norm			

Mistral C
lower mounting of the
, rudder

TM 329-003

Blatt
2
3 Bl.

Zust.	Änderung	Datum	Name			

20

c

3 3x on circuit

2   1

measure distance c _before_ swivel head is removed

3	3	Rivet Ø 4,0 × 6,0		VA	
2	1	Lower rudder fitting	ZR 005		
1	1	Swivel head with case	TM 329-003 pg.2		
Pos.	Quant.	Indication	Part no.	Material	

DIN 7168 mittel		Maßstab 1:1	
		assembly	

				Datum	Name	Mistral C
			Bearb.	29. 8. 89	Büh~	lower mounting of the rudder
			Gepr.	30.8.89	F.~K	
			Norm			
						TM 329-003
Zust	Änderung	Datum	Name			

Blatt
3
3 Bl.