Glaser-Dirks Flugzeugbau GmbH
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Telefon 07257/89-0. Telex 7822410 GLDG
LBA anerkannter Herstellungsbetrieb 18 25
LBA anerkannter Luftfahrttechnischer Betrieb IIA 279

SUBJECT : Power plant - ignition unit

EFFECTIVITY : DG-500 M serial no. 5E3 M2 up to 5E51 M23

ACCOMPLISHMENT : in case of exchanging electronic ignition boxes

REASON : The Bosch electronic boxes used so far with the Rotax 535 C engine are no longer available. If exchanging an electronic box is necessary, the powerplant must be modified to Ducati electronic boxes.

INSTRUCTIONS :

1. Execution of Rotax technical bulletin 535-06 and installation of the electronic boxes according to working instruction no.1 for TN 843/4.

2. Exchange engine manual to "Manual for ROTAX-engine type 535 C", 2nd edition January 1992.

3. Before putting the engine into service after the modification, execute TN 843/5 too.

MATERIAL : Working instruction No. 1 for TN 843/4

Manual for ROTAX-engine type 535 C
2nd edition January 1992

Material see list in working instruction no. 1

WEIGHT AND BALANCE : negligible

REMARKS : 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 4, Oct. 21, 1992

W. Dirks

Author: W. Dirks

LBA - approved:
The German original of this TN has been approved by the LBA under the date of 08. Dez. 1992 and is signed by Mr. Fendt. The translation into English has been done by best knowledge and jugdement. In any case of doubt the German original is authoritative

Type certification inspector:

A. Lange

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FOR TN 843/4

MODIFICATION OF THE POWERPLANT - IGNITION UNIT TO DUCATI ELECTRONIC BOXES

1. Remove electronic boxes with mounting bracket 5 M 65.
   Pull off the spark plug connectors and remove the spark plugs.

   Note: The electronic boxes with ignition (high voltage) wires and spark plug connectors, part 5 M 65 and the spark plugs will not be used any more. Remove bushes 5 M 66 from part 5 M 65 for further use.

2. Modify the ignition unit according to Rotax TN 535/06.

3. Mount the electronic boxes according to drawing 5 M 73 with part 5 M 72 and bushes 5 M 66.

4. Install the wiring according to drawing 5 M 74.

   Caution: The ty-raps (4.8 x 186) marked with "f" in drawing 5 M 74 are securing the 4 plug connectors of the electronic boxes. The ty-raps must be tightened by hand as tight as possible, so that pulling apart of the connectors is prevented. Then fix the wiring with the other ty-raps.

5. Retract the engine carefully up to the electronic boxes. Check if there is enough space between the boxes and the structure, min. 2 mm (.08 in.).
   If there is not enough clearance, the seats of the outside box may be filed down as far as necessary. Make sure that the seats have a plane surface!

Necessary material:

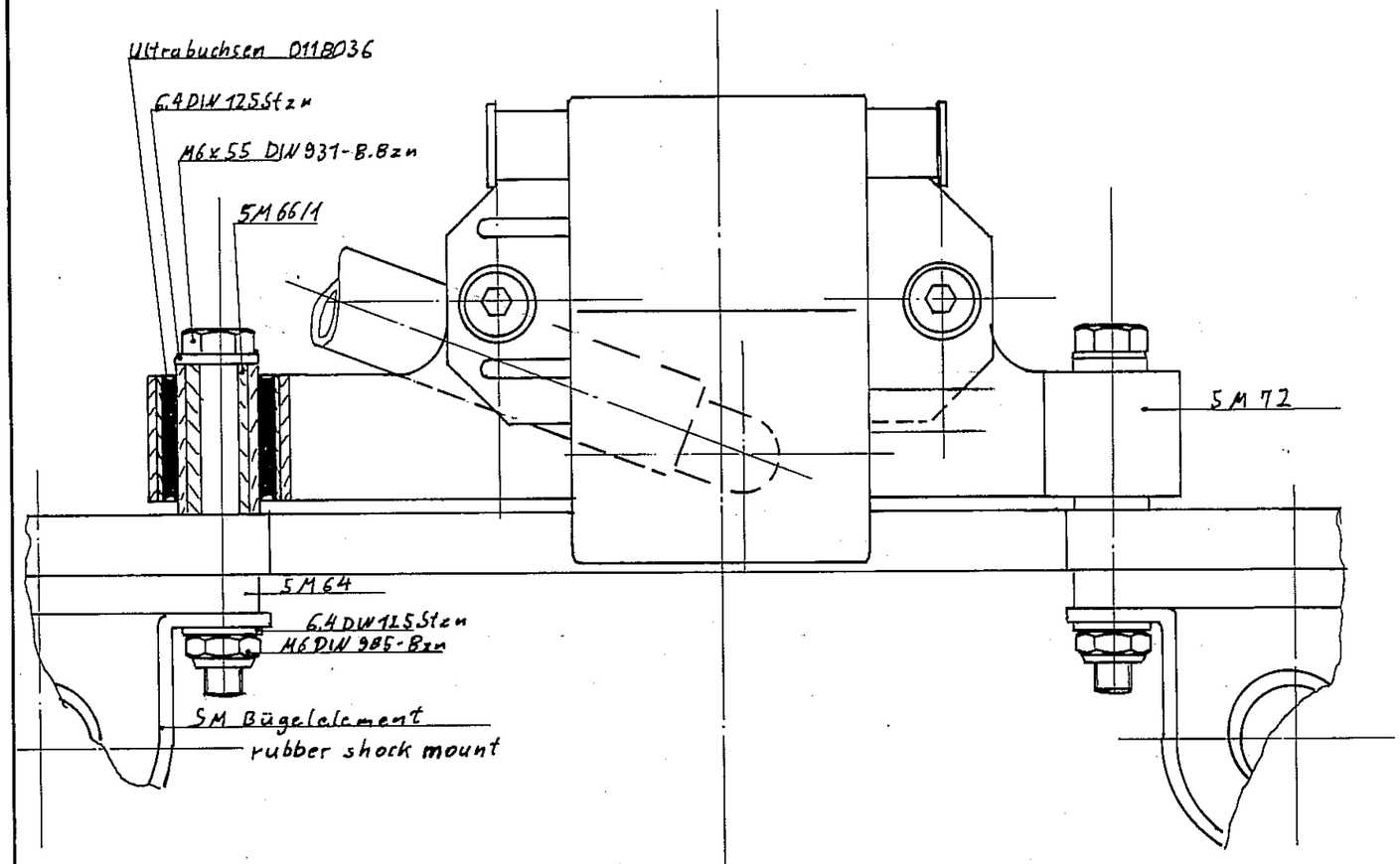
1 piece	retrofit kit Rotax 965679
1 piece	5 M 72 with Ultra bushings 0118036
2 piece	M 6 x 55 DIN 931-8.8 zn
2 piece	M 6 x 35 DIN 912-8.8 zn
8 piece	6,4 DIN 125 St zn
4 piece	M 6 DIN 985-8 zn

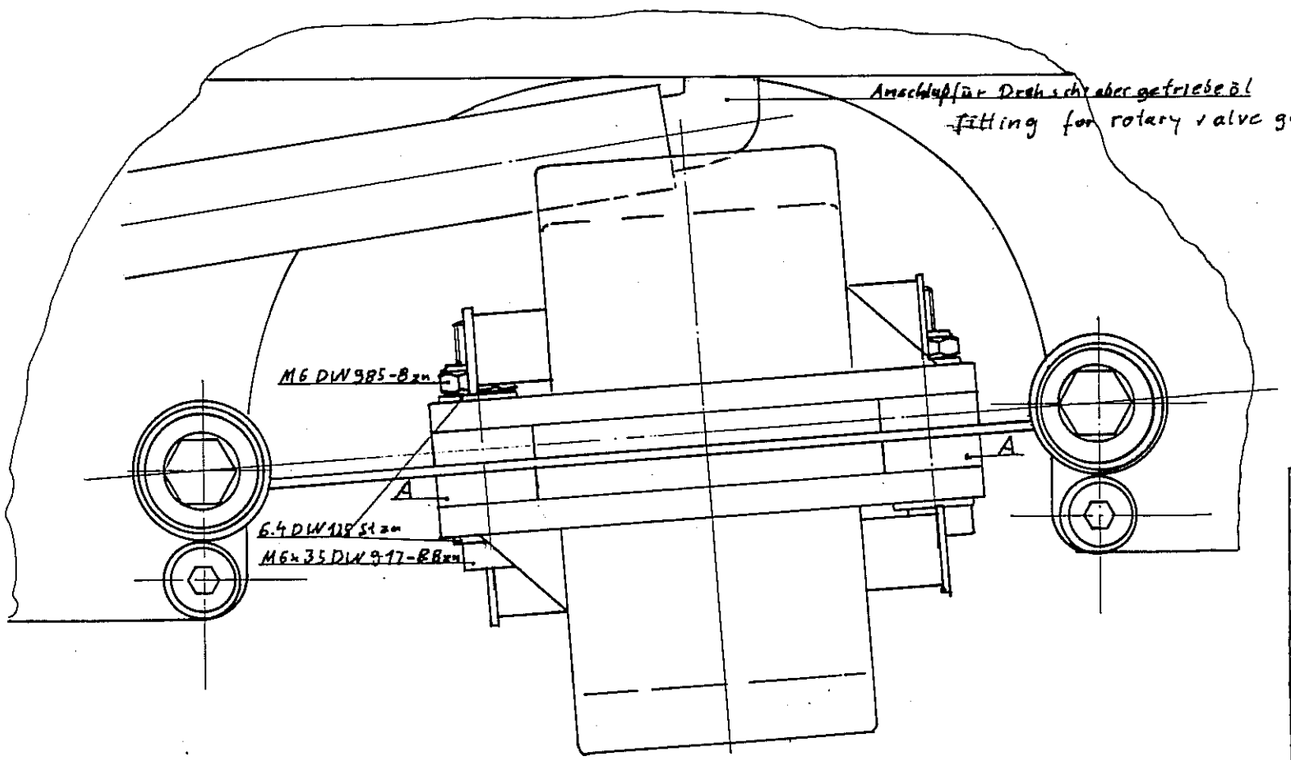
Enclosures: drawings 5 M 73
5 M 74

Bruchsal 4, 22.09.92

Author: Dipl.-Ing. W. Dirks

Type certification inspector: A. Lange





Ausg.	Änderung	Am	Tag	Name

	Tag	Name
Gez.	24.1.92	W. Dirks
Gepr.		
Norm		

Maßstab 1:1

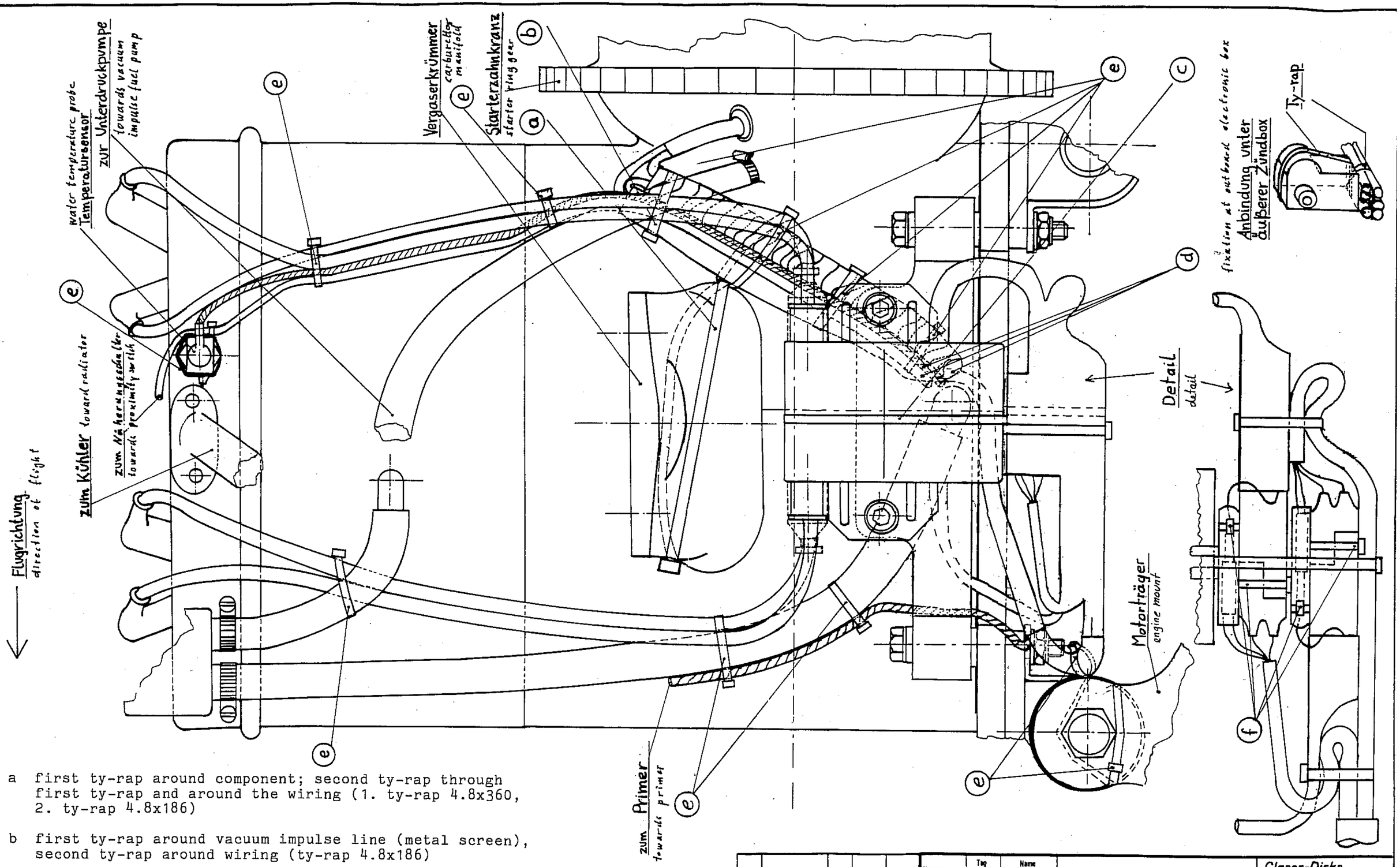
Maße ohne Toleranzang. nach:

Montage der Zündboxen Typ Ducati

Mounting of the ignition electronic boxes type Ducati

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5M 73



a first ty-rap around component; second ty-rap through first ty-rap and around the wiring (1. ty-rap 4.8x360, 2. ty-rap 4.8x186)

b first ty-rap around vacuum impulse line (metal screen), second ty-rap around wiring (ty-rap 4.8x186)

c ty-rap around outboard electronic box (ty-rap 4.8x186)

d these wiring is to be installed between engine and electronic boxes and then underneath the engine mounting plate

e,f all ty-raps 4.8x186 except see a

total amount: 23 ty-raps 4.8 x 186
1 ty-rap 4.8 x 360

	Tag	Name
Gez.	24.8.92	W. Kynast
Gepr.		
Norm		

Maßstab: /

Maße ohne Toleranzang. nach:

Ausg. | Änderung | Ant. | Tag | Name

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Verlegung der Zündkabel
installation of the wiring electronic boxes type Ducati

GG
5 M 74