

THE GLIDING FEDERATION OF AUSTRALIA

GFA AD 468
(ISSUE 1)

GFA AIRWORTHINESS DIRECTIVE

TYPE AFFECTED: DG-400.

SUBJECT: Replacement of the regulator.

BACKGROUND: Overseas experience has shown that the Bosch regulator unit may fail and fill the cockpit with smoke.

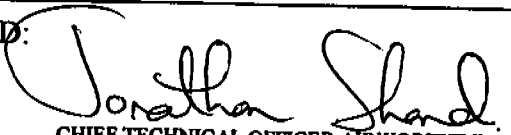
DOCUMENTATION: DG Flugzeugbau GmbH Technical Note 826/33 which forms part of this AD.

ACTION REQUIRED: Before 1 May 1997 all Bosch regulators must be replaced with Saprisa type regulators in accordance with Instruction 2 of TN 826/33.

WEIGHT AND BALANCE: Not affected.

IMPLEMENTATION: Replacement of the regulator may be performed by persons rated for annual inspections on the DG-400.

COMPLIANCE: The requirements of this GFA Airworthiness Directive are mandatory. This Directive is issued pursuant to the Rules and Regulations of the Gliding Federation of Australia.

SIGNED:  CHIEF TECHNICAL OFFICER AIRWORTHINESS		For and on behalf of: THE GLIDING FEDERATION OF AUSTRALIA	
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Postfach 4120 PLZ D-76625
Tel.: 0 72 57 / 89-0, Fax 89 22
Im Schollengarten 20
D-76646 Bruchsal-Untergrombach

Technical note
No. 826/33

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SUBJECT : Electrical system / regulator

EFFECTIVITY : DG-400 all ser. no's

ACCOMPLISHMENT : Latest Dec. 31st. 1996

REASON : A Bosch regulator 0212920001 was installed in the DG-400. These regulators have a limited life time. In recent times more and more regulators have become defective. When failing they may generate smoke in the cockpit which can impair flight safety. Therefore the regulator must be exchanged against type 4 E 26 which is already mentioned in the DG-400 maintenance manual as interchangeable type.

INSTRUCTIONS : 1. Check which regulator type is installed, compare with drawing 4 E 26.
2. If a Bosch regulator is installed, replace it by the new type 4 E 26 according to installation instruction Z 33.

MATERIAL : Installation instruction Z 33
drawing 4 E 26
Conversion kit Z 33

WEIGHT AND BALANCE : ./.

REMARKS : Instructions No. 2 is 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, July 19th 1996

Author: *W. OA*

LBA - approved:
The German original of this TN has been approved by the LBA under the date of July 24th 1996 and is signed by Mr. Walter. The translation into English has been done by best knowledge and judgement. In any case of doubt the German original is authoritative.

Type certification inspector:

A. F. H.

DG FLUGZEUGBAU GMBH

Z 33

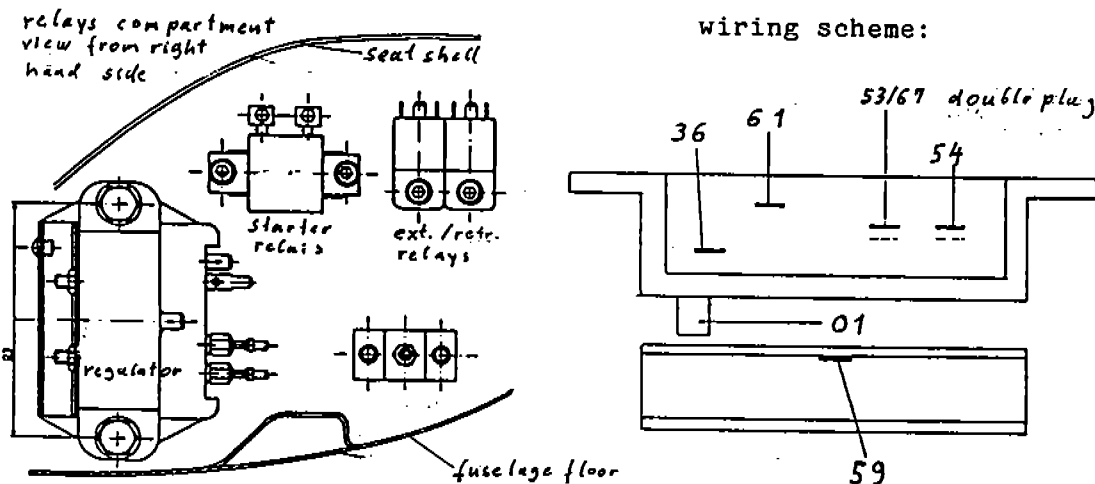
Z 33 Conversion kit Saprisa regulatorInstallation instructions

Reason:

The regulator Bosch type is no longer available and has a limited life time.

For replacement a regulator type Saprisa was modified so that it can be used instead.

- Instructions: 1. Installation of the modified regulator 4 E 26.
To fix the regulator 2 new holes dia. 8 mm must be drilled to the bulkhead (see sketch below).
Plug the wires to the new regulator.
The wires are marked with the numbers according to the scheme below.



2. Execute an engine test run. With old DEI versions, there may be malfunction of the DEI displays.
In this case ship the DEI for modification to:

Utz Schicke
Elektroniklabor
Kanalstr. 32
D-76356 Weingarten

Material of the
retrofit kit

Z 33:

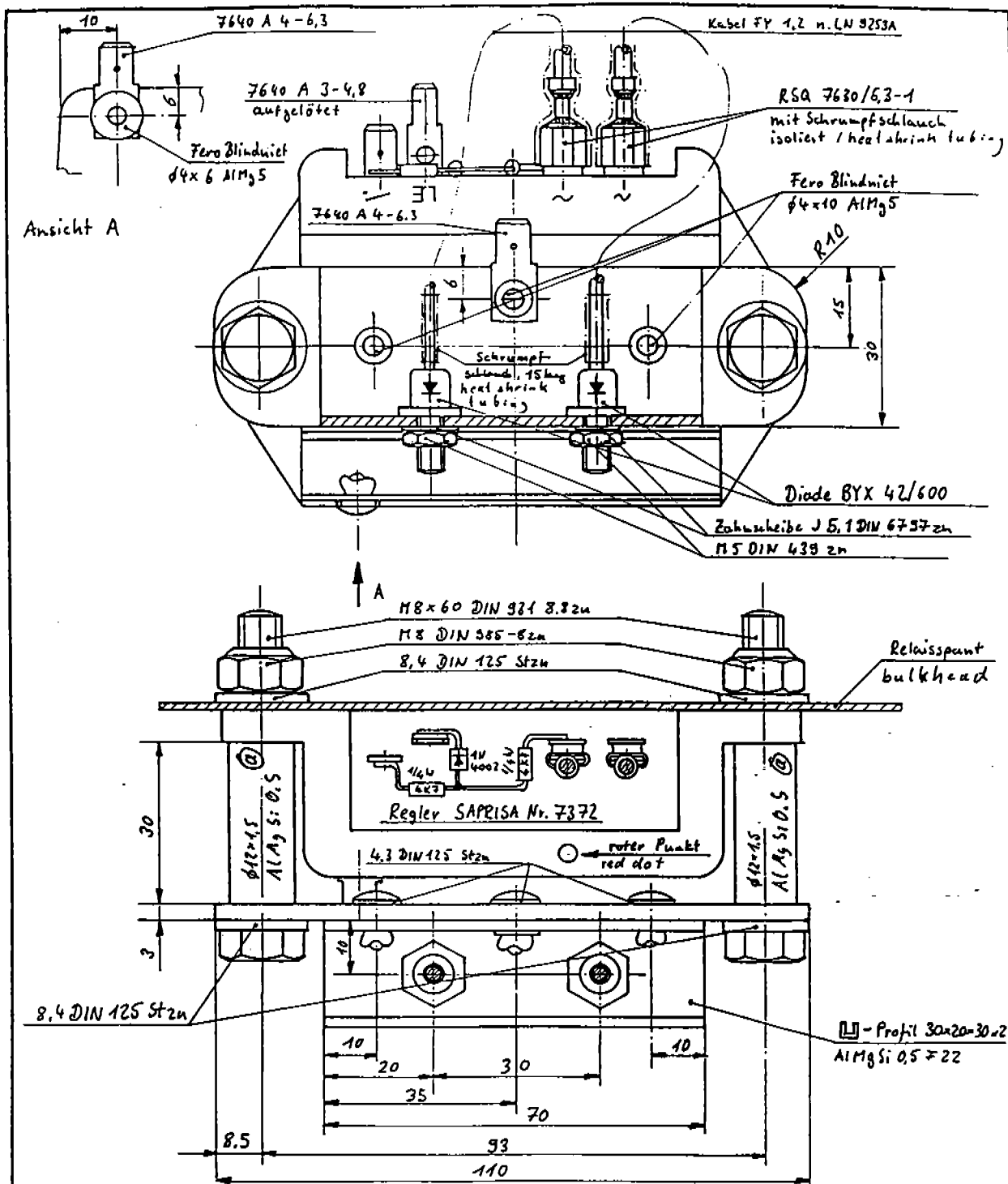
Part-no.: 10180330

1 regulator 4 E 26	
2 tubes	12 x 1.5 x 30
2 bolts	M 8 x 60 DIN 931 - 8.8 zn
2 washers	8.4 DIN 125 Stzn
2 self locking nuts	M 8 DIN 985 - 8 zn
drawing 4 E 26	

W. Dirks

W. O.

July 04, 1996

[illegible]