

OPTIONAL SERVICE BULLETIN

OSB 42-116

OSB 42NG-055

I TECHNICAL DETAILS

I.1 Category

Optional.

I.2 Airplanes affected

Type: DA 42, DA 42 M, DA42 NG, DA 42 M-NG

Serial numbers: 42.004 through 42.427
42.AC001 through 42.AC152
42.M001 through 42.M026
42.MN001 through 42.MN024
42.N001 through 42.N056
42.NC001

I.3 Date of effectivity

04-Sep-2015

I.4 Time of Compliance

At owner's discretion.

I.5 Subject

Installation of resistors to prevent nuisance fuel transfer advisories

ATA-Code: 31-00

I.6 Reason

To prevent nuisance "L/R AUXPUMP ON" (DA 42 NG /M-NG) and "L/R FUEL XFER" (DA 42 /M) annunciations a series resistor and a pull-down resistor is installed at the input of the fuel transfer pump at the GEA 71.

I.7 Concurrent Documents

None.

I.8 Approval

The technical information or instructions contained in this document relate to the Design Change Advisory No. MÄM 42-587, which has been approved under the authority of EASA Design Organization Approval ref. EASA.21J.052.

The technical content of this document has been approved under the authority of DOA ref. EASA.21J.052.

I.9 Accomplishments / Instructions

See WI-OSB 42-116 / WI-OSB 42NG-055, latest effective issue.

I.10 Mass (Weight) and CG

No Change.

II PLANNING INFORMATION**II.1 Material and Availability**

See WI-OSB 42-116 / WI-OSB 42NG-055, latest effective issue.

II.2 Special Tools

None.

II.3 Labour Effort

Approx. 15 hours.

II.4 Credit

None.

II.5 Reference Documents

DA 42 /M Airplane Maintenance Manual, Doc. No. 7.02.01, latest effective issue.

DA 42 NG /M-NG Airplane Maintenance Manual, Doc. No. 7.02.15, latest effective issue.

III REMARKS

1. All work must be done by a certified aircraft service station or a certified aircraft maintenance mechanic.
2. All work, in particular that which is not especially described in this Service Bulletin, must be done in accordance with the referenced Maintenance Manual.
3. Completion of all work must be recorded in the log book.
4. In case of doubt contact Diamond Aircraft Industries GmbH.

**EXECUTION REPORT TO
SERVICE BULLETIN
OSB 42-116
OSB 42NG-055****AIRPLANE INFORMATION**

Airplane Serial Number _____

Airplane Registration _____

Airplane Operator _____

Hours of operation of airplane _____

No. of landings _____

Hours of operation-engine LH _____

RH _____

Typical operation of airplane private, club, training, other _____

Date, Name, SignPlease fax the completed form to Fax No. +43-2622-26700-1369 or e-mail to
airworthiness@diamond-air.at

WORK INSTRUCTION

WI-OSB 42-116

WI-OSB 42NG-055

I GENERAL INFORMATION

I.1 Subject

Installation of resistors to prevent nuisance Fuel Transfer advisories.

I.2 Reference Documents

DA 42 Series Airplane Maintenance Manual, Doc. No. 7.02.01, latest effective issue.

DA 42 NG Airplane Maintenance Manual, Doc. No. 7.02.15, latest effective issue.

I.3 Remarks

- a) All work must be done by a certified aircraft service station or a certified aircraft maintenance mechanic.
- b) All work, in particular that which is not especially described in this work instruction, must be done in accordance with the referenced maintenance manual.
- c) In case of doubt, contact Diamond Aircraft Industries GmbH.

II DRAWINGS, SPECIAL TOOLS & MATERIALS

II.1 Drawings

D60-2401-26-00 Rev. “-“

II.2 Special Tools

None.

II.3 Material

Quantity	Part No.	Description
1	D60-2401-26-00	Resistor Assembly, Aux Fuel Annunciation

Material is available from Diamond Aircraft Industries.

III INSTRUCTIONS

1	Disconnect the main and ECU backup batteries.
2	Remove the instrument panel cover.
3	Remove GEA 71.
4	Disassemble the plug P702 of the GEA71.
5	Extract the pins of aux fuel transfer.
6	Cut-off the pins.
7	Insert the pins of the resistor assembly into the plug.
8	Crimp the wires of the resistor assembly with the above cutoff wires.
9	Reassembly the plug.
10	Reinstall the GEA71.
11	Check for foreign objects.
12	Reinstall the instrument panel cover.
13	Reconnect the main and ECU backup batteries.
14	Test all systems in working area for function.
15	Make all necessary entries in the airplane logs.

ALL RIGHTS RESERVED FOR THIS DOCUMENT WHICH MAY NOT BE REPRODUCED OR DISCLOSED TO THIRD PARTIES WITHOUT THE PRIOR WRITTEN CONSENT OF DIAMOND AIRCRAFT INDUSTRIES

Confidential

8

7

6

5

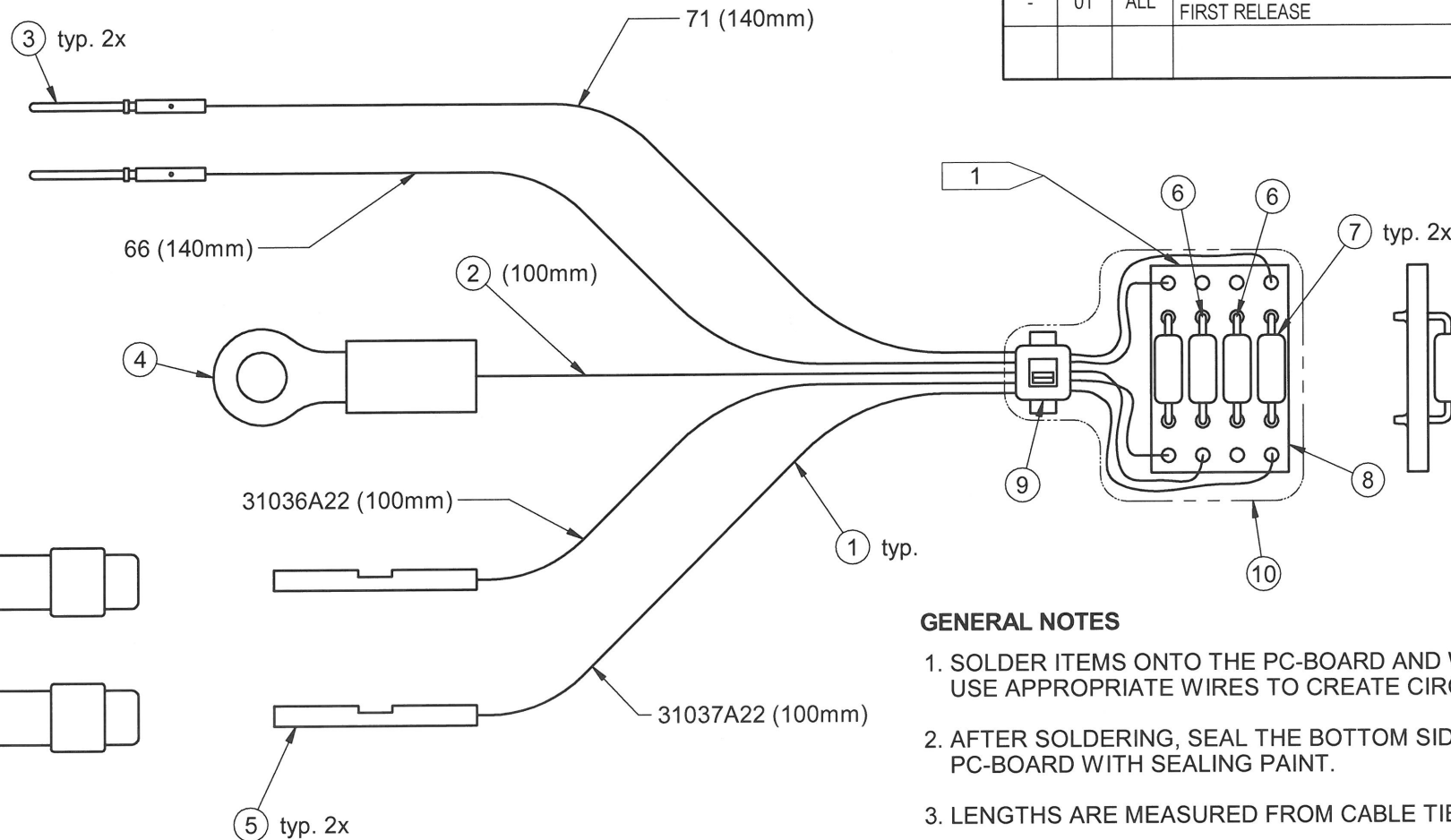
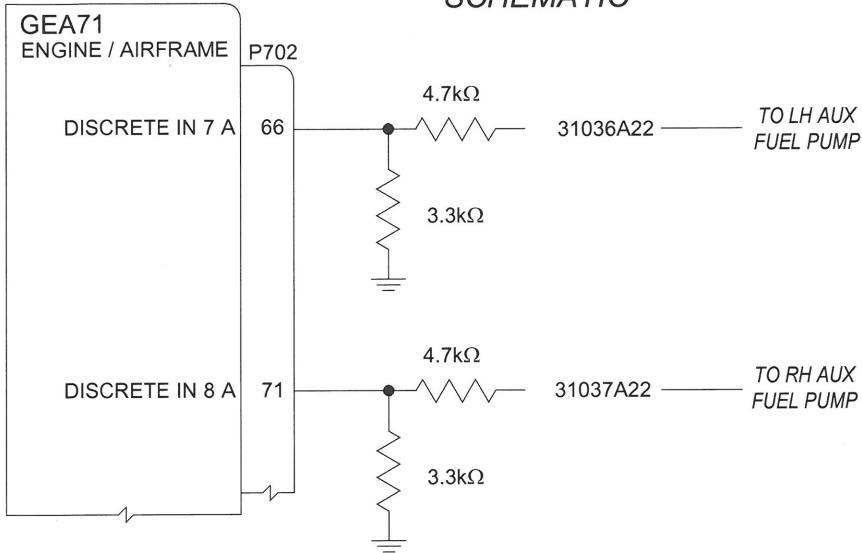
4

3

2

1

SCHEMATIC



GENERAL NOTES

- SOLDER ITEMS ONTO THE PC-BOARD AND WHERE NECESSARY USE APPROPRIATE WIRES TO CREATE CIRCUITS.
- AFTER SOLDERING, SEAL THE BOTTOM SIDE OF THE PC-BOARD WITH SEALING PAINT.
- LENGTHS ARE MEASURED FROM CABLE TIE.
- MARK WIRES AS SHOWN.
- MARK HEATSHRINK WITH DRAWING NUMBER.

FLAG NOTES

- 1 CUT THE PC-BOARD AS SHOWN
- 2 SUPPLY SEALING LOOSE.

10	0.03m	FT500-1270	Heatshrink, white						
9	1	PLT1MM30	Cable Tie						
8	A/R	527661-13	PCB Matrix						
7	2	LR1F4K7	Resistor					4.7kΩ / 0.6W	148-663
6	2	LR1F3K3	Resistor					3.3kΩ / 0.6W	148-629
5	2	D-436-36	Splice						
4	1	31886	Ring Terminal						
3	2	M39029/58-360	Pin						
2	0.15m	M22759/16-22-90	Wire, #22 AWG, white/black						
1	0.6m	M22759/16-22-9	Wire, #22 AWG						
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL TYPE	H.T.	MATERIAL SIZE	SPECIFICATION	REMARK	

DIMENSIONS		METRIC	IDENTIFICATION MARKINGS		Diamond Aircraft Industries GmbH		Diamond Aircraft Industries			N. A. Otto-Straße 5 A-2700 Wiener Neustadt			
FIRST ANGLE PROJECTION		FORMAT	DP-S-17-00001		DEPARTMENT		SIGN	DATE	PROJECT DA 42 Series				
		A3	CLASSIFICATION: NONE		DRAWN Kowarsch			14.11.11	TITLE Resistor Assembly, Aux Fuel Annunciation				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MM		3.2	INTERCHANGEABLE PART NO		CHECKED: Kowarsch			21.11.2011					
DIMENSION TOLERANCES			THIS DRAWING WAS PRODUCED USING		QA: N/A								
2 DECIMAL ±0,25 1 DECIMAL ±0,5 DECIMAL ±1 ANGLE ±1° RAD ±0,5			SOFTWARE: SOLID EDGE V18		STRESS: N/A								
		FINISH IN MICRO-METER	FILENAME D60-2401-26-00.dft		MANUF.: N/A				DWG.ORIG. DAIA		DWG.NO. D60-2401-26-00		REV "-"
					SYSTEM: N/A								
					APPROVED: TL			26-11-2011	CODE 710197		SCALE NTS	SH 01 OF 01	

8

7

6

5

4

3

2

1

Confidential