

MANDATORY SERVICE BULLETIN

NO. MSB-40-064

I TECHNICAL DETAILS

I.1 Category

Mandatory

I.2 Airplanes affected

Type: DA 40
Serial Numbers: 40.934, 40.942
40.950 through 40.972
40.974, 40.984, 40.993, 40.995

I.3 Date of Effectivity

16-Nov-2009

I.4 Time of Compliance

Within the next 100 flight hours from the date of effectivity but not later than 28-Feb-2010.

I.5 Subject

This Service Bulletin prescribes the replacement of the 'alternator circuit breaker to main bus jumper wire' and the 'battery circuit breaker to essential bus jumper wire', P/N DA4-3144-60-03.

ATA-Code: 24-00

I.6 Reason

On 3 aircraft non-crimped terminals of the 'alternator circuit breaker to main bus jumper wire' located behind the circuit breaker panel led to excessive electrical resistance. A number of aircraft possibly affected by faulty jumper wires could be isolated and are addressed by this Service Bulletin.

I.7 Concurrent Documents

None

I.8 Approval

The technical content of this document has been approved under the authority of DOA No. EASA.21J.052.

I.9 Accomplishment/Instructions

WI-MSB-40-064, latest affective issue must be complied with.
WI-MSB-40-064 is attached to this Service Bulletin.

I.10 Mass (Weight) and CG

Mass and Center of Gravity are not affected.

II PLANNING INFORMATION

II.1 Material & Availability

Materials are available from Diamond Aircraft Industries Inc., Canada.

II.2 Special Tools

none

II.3 Labour Effort

Approx. 3,5 hours

II.4 Credit

2 hours of work for all A/C mentioned in I.2 provided that the used jumper wires have been sent back to Diamond Aircraft Industries Inc., Canada.

II.5 Reference Documents

Diamond Aircraft DA 40 Series Airplane Maintenance Manual, Doc. No. 6.02.01, latest effective issue.

III REMARKS

1. All measures must be carried out by a certified aircraft service station or a certified aircraft maintenance mechanic.
2. All works, particular those that are not especially described in this service bulletin, must be carried out in accordance with the referenced maintenance manual.
3. Accomplishment of the measures must be confirmed in the log book.
4. If material and/or labor hours are subject to be credited through Diamond Aircraft Industries Inc., Canada, the Service Bulletin must be carried out by an authorized Diamond Service Center and the Warranty Application incl. Work Report must be sent to Diamond Aircraft Industries Inc., Canada not later than 30 days after the final date of time of compliance.
5. In case of doubt contact Diamond Aircraft Industries Inc., Canada.

**EXECUTION REPORT TO
MANDATORY SERVICE BULLETIN
No. MSB-40-064**

AIRPLANE DATA

Airplane Serial Number: _____

Airplane Registration: _____

Airplane Operator: _____

Hours of operation of airplane: _____

No. of landings: _____

Hours of operation-engine _____

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

Date, Name, Sign

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

WORK INSTRUCTION

WI-MSB-40-064

„Replacement of Jumper Wires“

I GENERAL INFORMATION

I.1 Subject:

This Work Instruction prescribes the replacement of the ‘alternator circuit breaker to main bus jumper wire’ and the ‘battery circuit breaker to essential bus jumper wire’, P/N DA4-3144-60-03.

I.2 Reference Documents:

Diamond Aircraft DA 40 Series Airplane Maintenance Manual, Doc. No. 6.02.01, latest effective issue.

I.3 Remarks:

- a) The measures must be carried out by a certified aircraft service station or a certified aircraft maintenance mechanic.
- b) All works, particular those that are not especially described in this work instruction, must be carried out in accordance with the referenced maintenance manual.

II DRAWINGS, SPECIAL TOOLS & MATERIALS

II.1 Drawings:

n. a.

II.2 Special Tools:

none

II.3 Material:

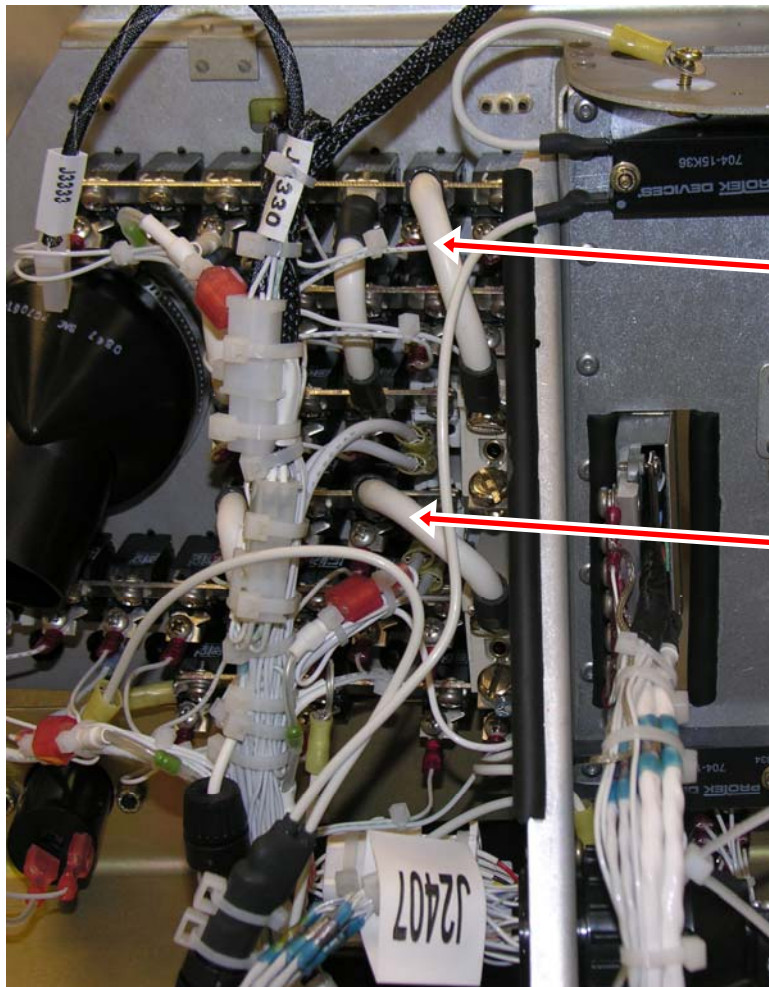
Quantity	Part No.	Description
2	DA4-3144-60-03	Large circuit breaker jumper

Materials are available from Diamond Aircraft Industries Inc., Canada.

III INSTRUCTIONS

1	Remove the engine cowlings. Refer to AMM section 71-10.
2	Disconnect the main battery. Refer to AMM section 24-31.
3	Remove the instrument panel cover. Refer to AMM section 25-10.
4	Disconnect the ventilation hose from the RH cabin air control located on the rear side of the circuit breaker panel by removing the tie wrap.

- 5 Replace the 'alternator circuit breaker to main bus jumper wire' and the 'battery circuit breaker to essential bus jumper wire', P/N DA4-3144-60-03, by new ones as indicated in the picture.



6	Mark the used jumper wires so that it is clear which one is the 'alternator circuit breaker to main bus jumper wire' and which one is the 'battery circuit breaker to essential bus jumper wire' and send them back to Diamond Aircraft Industries Inc., Canada.
7	Connect the ventilation hose to the RH cabin air control with a tie wrap.
8	Connect the main battery. Refer to AMM section 24-31.
9	Carry out a test of all components that are connected to the main bus and to the essential bus.
10	Carry out a test of the correct function of the essential bus system (Essential Bus switch ON).
11	Install the instrument panel cover. Refer to AMM section 25-10.
12	Install the engine cowlings. Refer to AMM section 71-10.
13	Clean working area and check for foreign objects.
14	Perform functional check of altered, repaired and new parts.
15	Test all systems in working area for function.
16	Make necessary entries into aircraft logs.