

OPTIONAL SERVICE BULLETIN

OSB 42-098

I TECHNICAL DETAILS

I.1 Category

Optional.

I.2 Airplanes affected

Type: DA 42 /M
Serial numbers: 42.004 and subsequent
42.AC001 and subsequent
42.M001 and subsequent

I.3 Date of effectivity

11-Mar-2013

I.4 Time of Compliance

At owner's discretion

I.5 Subject

Installation of new power supplies for the taxi- and landing lights.

ATA-Code: 33-40

I.6 Reason

The previous installed power supplies for the taxi- and landing lights are no longer available from the manufacturer and also not as spare part. In case of a malfunction, the power supplies have to be replaced by new power supplies, which require changes to the installation.

I.7 Concurrent Documents

None.

I.8 Approval

The technical information or instructions contained in this document relate to the Design Change Advisory No. OÄM 42-185/a, 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

Comply with WI-OSB 42-098, latest effective issue.

Make all necessary entries in the airplane logs.

Incorporate TR-OÄM 42-185 into the Airplane Flight Manual according to instructions given on the cover sheet of the TR-OÄM 42-185.

I.10 Mass (Weight) and CG

The change in mass and CG is negligible.

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

See WI-OSB 42-098, latest effective issue.

Materials including drawings are available from Diamond Aircraft Industries.

II.2 Special Tools

None.

II.3 Labour Effort

Approx. 6 hours.

II.4 Credit

None.

II.5 Reference Documents

DA 42 Airplane Maintenance Manual, Doc. No. 7.02.01, 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, particular those that are 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.



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EXECUTION REPORT TO SERVICE BULLETIN OSB 42-098

AIRPLANE DATA

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, Sign

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

WORK INSTRUCTION

WI-OSB 42-098

I GENERAL INFORMATION

I.1 Subject

Installation of new power supplies and the required wiring for the taxi- and landing lights.

I.2 Reference Documents

DA 42 Series Airplane Maintenance Manual, Doc. No. 7.02.01, 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 if not described in this work instruction, must be done i.a.w.the referenced maintenance manual.
- c) For conversion factors between SI units and US/Imperial units refer to AMM Chapter 02.
- d) In case of doubt, contact Diamond Aircraft Industries GmbH.

II DRAWINGS, SPECIAL TOOLS & MATERIALS

II.1 Drawings

D64-5320-32-00x01

II.2 Special Tools

None.

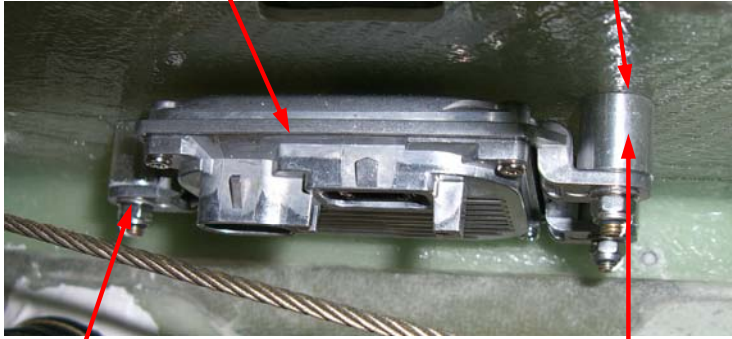
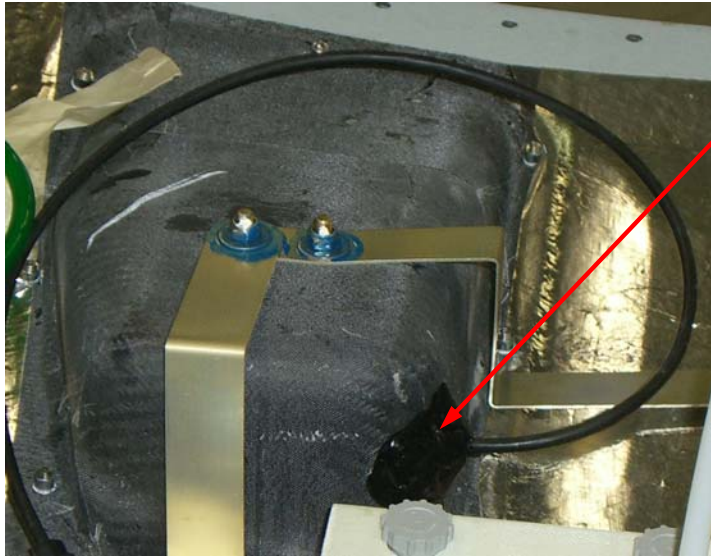
II.3 Material

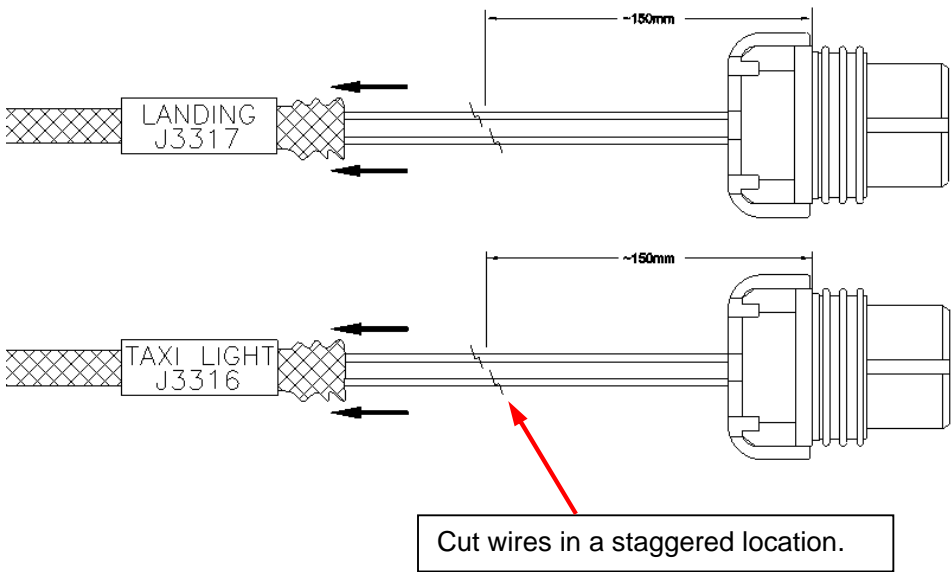
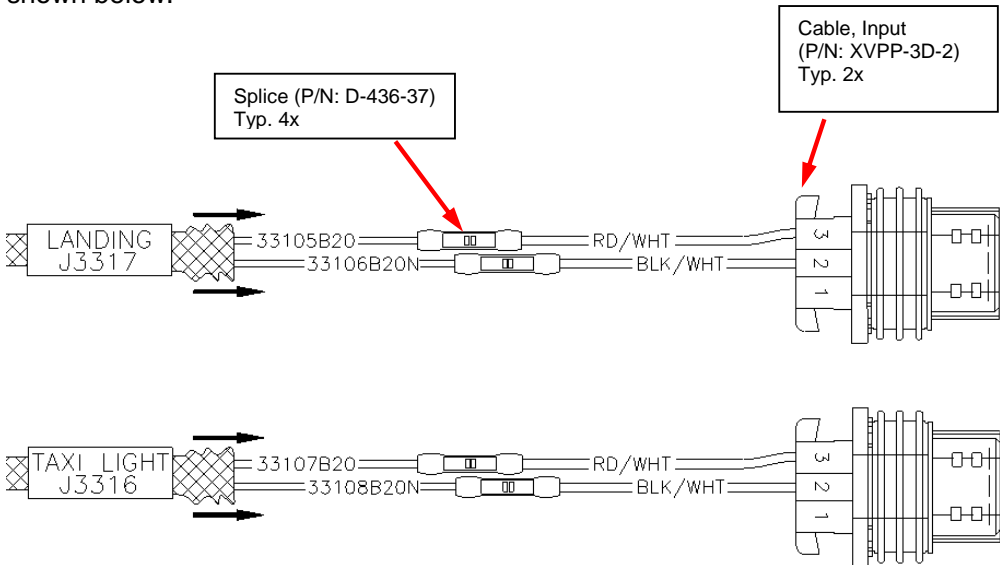
Quantity	Part Number	Description
2	XV4D-24-35-SHS-WT	HID Ballast (Power Supply)
2	XVLC-2-S	Cable, double shielded, 2 ft
2	XVPP-3D-2	Cable, Input
6	BU2-15-06-0150-B	Bushing
4	D-436-37	Splice, blue
6	LN 9037-05 026	Screw
6	DIN 985-M5-A2	Locknut
6	DIN 9021-A5.3-A2	Washer
6	DIN 125-A5.3-A2	Washer
10	PLT1MM30	Cable Tie

Material including drawing is available from Diamond Aircraft Industries.

III INSTRUCTIONS

1	Set the ELECT. MASTER, TAXI light and LANDING light switches to OFF.
2	Set the LH BATT, RH BATT circuit breakers open (pull).
3	Remove the pilot and co-pilot seats i.a.w. AMM Section 25-10.
4	Remove the taxi- and landing light power supplies (electronic controllers) i.a.w. AMM Section 33-40.
5	Remove the taxi- and landing lights i.a.w. AMM Section 33-40.
6	Remove the electrical cables that route from the power supplies to the lights.
7	Drill new holes for the power supplies i.a.w. drawing D64-5320-32-00x01.

8	<p>Install the new power supplies as shown below.</p> <p>Power Supply: XV4D-24-35-SHS-WT</p> <p>Screw: LN 9037-05 026 Typ. 3x (backside) Washer: DIN 9021-A5.3-A2 Typ. 3x (backside)</p>  <p>Washer: DIN 125-A5.3-A2 Locknut: DIN 985-M5-A2 Typ. 3x</p> <p>Bushing: BU2-15-06-0150-B Typ. 3x</p>
9	<p>Route the new double shielded cable assemblies (P/N: XVLC-2-S) as the previous cables and connect them the power supplies and the taxi- and landing lights. Modification to the structure is necessary to route the connector through it. Make a cutout of 25 mm x 15 mm.</p>
10	<p>Install the taxi- and landing lights i.a.w. AMM Section 33-40.</p>
11	<p>Seal the connector feed through with sealing compound (Easy Gasket or equivalent).</p> 

<p>12</p>	<p>Pull back Expando and cut-off approximately 150mm of the wires with connectors J3316 and J3317 from the center harness</p> 
<p>13</p>	<p>Splice the new cable connectors (P/N XVPP-3D-2) onto the wires of J3316 and J3317 as shown below.</p> 
<p>14</p>	<p>Connect the connectors J3316 and J3317 to their associated power supplies.</p>
<p>15</p>	<p>Secure all loose wires using cable ties.</p>
<p>16</p>	<p>Clean working areas, check for foreign objects.</p>
<p>17</p>	<p>Re-set the LH BATT, RH BATT circuit breakers (press).</p>

18	Check all altered, replaced, repaired parts for proper function.
19	Install the pilot and co-pilot seats i.a.w. AMM Section 25-10.
20	Test all systems in working area for function.
21	Make all necessary entries in the airplane logs.