

# SERVICE INFORMATION NO. SI40-001/1

SUPERSEDES SERVICE INFORMATION NO. SI40-001

## I. TECHNICAL DETAILS

### 1.1 Airplanes affected

DA 40 Series: all serial numbers

### 1.2 Subject

ATA-Code: None

Description of the SB systems of Diamond Aircraft Industries GmbH

### 1.3 Reason

- During the certification process for the JAA Design Organization Approval (DOA) of the engineering department of Diamond Aircraft Industries GmbH, the existing procedures and systems have been revised and improved. This has also resulted in an improved SB system, which is now also applicable to the DA 40 Series.
- The numbering system of Service Bulletins and Service Informations was changed. The DA 40 D airplanes were separated from the DA 40 airplanes.
- The publishing and distribution system of Service Bulletins and Service Informations was changed.
- Service Bulletins and Service Informations issued within the DA 40 SB system which remain effective for DA 40 D airplanes can be found in the SB and SI-lists.

### 1.4 Information

For a detailed description of the new SB-System please refer to Appendix A of this SI.

## II. OTHERS

**The system can only be good as the information we receive from our customers and maintenance shops about our products. Therefore, please help us to your own benefit and report any failure, malfunction or defect which occurred to our customer support department.**

# **SERVICE BULLETIN & SERVICE INFORMATION**

## **1. APPLICABILITY**

*The SB-system described herein is applicable to all models of Diamond Aircraft Industries GmbH.*

## **2. DEFINITIONS AND ABBREVIATIONS**

### Service Bulletin

*Service Bulletins (TM, SB) are a way to regulate modifications carried out on registered, in field operated aircraft.*

### Service Information

*Service Informations are a way to give the operator of products of Diamond Aircraft Industries GmbH technical information about the product which are not included in the standard documentation. This could be for example recommendations for maintenance or information about SB's of other manufacturers (Rotax, Lycoming, etc.).*

## **3. PROCEDURE DESCRIPTION**

### **3.1 Initiating**

#### 3.1.1 Service Bulletin

*The process for the issuance of a Service Bulletin is initiated by the Office of Airworthiness of Diamond Aircraft Industries GmbH. This happens as a result of the constant monitoring of the failures, malfunctions and defects occurring during the operation of the products of Diamond Aircraft Industries GmbH or in case of an optional SB if required. SB's are issued only on base of approved design data.*

### 3.1.2 Service Information

*The process for the issuance of a Service Information is initiated either by the Office of Airworthiness or the Customer Support department of Diamond Aircraft Industries GmbH.*

*A SI will be issued when:*

- h the manufacturer of a product (Lycoming, mt-propeller, etc.) has issued a SB which is applicable to a product of DAI without any further change,*
- h the operator of a DAI product should receive additional technical information about the product which is not shown in the standard documentation (e.g., recommendations for maintenance, information about failures which have happened only once and are not expected to happen again, etc.).*

## **3.2 Preparation**

### 3.2.1 Service Bulletin

**(a) Structure of a SB**

*A draft of a SB is attached.*

*The printout is done on a white sheet of paper, size DIN A4. The exception of this is the Alert Service Bulletin, which will be on a blue sheet of paper, size DIN A4.*

**(b) Language**

*Type DA 40 series:*

*Unilingual, English.*

**(c) Numbering**

*Type DA 40 series:*

*Sequential number in accordance with TC data sheet prefix 'xSB40-' for DA 40's and 'xSBD4-' for DA 40 D's for each SB category.*

(d) *SB-Category*

*For identification of the urgency of an SB, the SB's are divided in four different categories:*

**h** *Alert (ASB)*

*If an ASB is issued, there is a direct potential hazard. The instructions given in the SB must be carried out immediately. Blue paper is used for this category.*

**h** *Mandatory (MSB)*

*If a MSB is issued, there is no direct potential hazard. Non-compliance with the instructions of the SB will cause the safety of the airplane to be reduced or endangered.*

*The actions to be done are linked to a time of compliance.*

**h** *Recommended (RSB)*

*A RSB contains recommendations of Diamond Aircraft Industries GmbH. Non-compliance with this SB has no impact on flight safety. Compliance with this SB is of advantage for the operator (for example lower operating costs, etc.).*

**h** *Optional (OSB)*

*An OSB is used to inform the operator of a product of Diamond Aircraft Industries GmbH about the possible installation of additional equipment (for example a towing device, etc.).*

(e) *Time of Compliance*

*The time of compliance can be given as the time at which compliance with the instructions given in the SB must be shown at the latest. The time of compliance can be given by hours of operation, a date, numbers of landings or/and time intervals.*

**h** *Alert (ASB)*

*The actions given in this SB must be done immediately (prior to further flight).*

**h** *Mandatory (MSB)*

*The time of compliance is based on the reason for the SB (probability of reoccurrence) and the experience of Diamond Aircraft Industries GmbH.*

**h** *Recommended (RSB)*

*Compliance with the instructions of this SB is at the holder's discretion, no time of compliance is given.*

- h Optional (OSB)  
Compliance with the instructions of this SB is at the holder's discretion, no time of compliance is given.*
- (f) Subject  
The 'subject' describes the affected system or area of the airplane (for example: landing gear). In addition the applicable ATA-Code is given.*
- (g) Reason  
The 'Reason' gives information about the circumstances which have lead to the SB. This information shall help the mechanic to assess the work to be done and to support him in doing the work.*
- (h) Concurrent Documents  
Concurrent documents are additional applicable documents, for example SB's of other manufacturers of products, Work Instructions or other Information Sheets.*
- (i) Approval Statement  
The approval of the SB's is done on the basis of the JAA Design Organization Approval. A note is given on the SB.*
- (j) Further Notes  
All further notes as shown in the draft (planning information etc.) are discussed and laid down during a SB meeting of Diamond Aircraft Industries GmbH.*

### 3.2.2 Service Information

- (a) Structure of a SI  
A draft of a SI is attached.  
The printout is done on a white sheet of paper, size DIN A4.*
- (b) Language  
Type DA 40 series:  
Unilingual, English.*
- (c) Numbering  
Type DA 40 series:  
Sequential number in accordance with TC data sheet prefix 'SI40-' for DA 40's and 'SID4-' for DA 40 D's.*

(d) *Subject*

*The 'subject' describes the affected system or area of the airplane (for example: landing gear). In addition the applicable ATA-Code is given.*

(e) *Reason*

*The 'Reason' gives information about the circumstances which have lead to the SI.*

(f) *Information*

*This is the information which Diamond Aircraft Industries GmbH want to relay.*

#### **4. INFORMATION ABOUT ISSUING AND PUBLISHING OF SB OR SI**

*All Service Bulletins and Service Informations from Diamond Aircraft Industries GmbH are published on the Internet Homepage [www.diamond-air.at](http://www.diamond-air.at) of DAI. Additionally DAI offers to inform every customer, operator and maintenance shop about new issues of SB's or SI's by email if registered.*