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MANDATORY SERVICE BULLETIN

NO. MSB 20-049 NO. MSB 22-004

I. TECHNICAL DETAILS

1.1 Category

Mandatory.

1.2 Airplanes affected

Type: DV 20 / DV22

Serial numbers: all DV 20 / DV22

1.3 Time of Compliance

Within the next 100 hours of operation, but not later than 31-Dec-2005

1.4 Subject

Safety Lock for Canopy

ATA-Code: 52-00

1.5 Reason

During operation of the airplane, a canopy opened in flight presumably due to mis-operation. To give the operator an additional and cabin lock independent safety device to avoid dangerous flight states with an open canopy as a result of mis-operation, Diamond Aircraft Industries issued this Mandatory Service Bulletin.

1.6 Concurrent documents

MÄM 20-257, latest revision



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1.7 Approval

The technical information or instructions contained in this document relate to the Mandatory Design Change Advisory No. MÄM 20-257 which has been approved under the authority of EASA Design Organization Approval no. EASA.21J.052.

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

1.8 Accomplishment/Instructions

Installation of the Canopy Safety Lock in accordance with the instructions given in the Work Instruction WI-MSB20-049.

Incorporate Temporary Revision /Temporare Revision TR MAM-20-257 into Airplane Flight Manual.

Work Instruction No. WI-MSB20-049 and Temporary Revision / Temporare Revision TR MÄM-20-257 must be complied with.

Terminate Action:

If MSB20-049 is carried out, the lock wire installed into the LH and RH cover of the locking mechanism, prescribed in Work Instruction No. WI-MSB20-39, is no longer necessary.

1.9 Mass (Weight) and CG

Change in mass and cg is negligible.

II. PLANNING INFORMATION

2.1 Material & Availability

Materials are available from Diamond Aircraft Industries.

2.2 Special Tools

none

2.3 Labor effort

Overall work: 1 man hour



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2.4 Credit

none *)

*) This kit is offered however to the customer for the prime costs of Diamond Aircraft Industries.

2.5 Reference documents

DV 20 Series Airplane Maintenance Manual, Doc. No. 4.02.02, always latest revision.

III. REMARKS

- 1. All measures must be carried out by the manufacturer, a certified aircraft service station or a certified aircraft maintenance mechanic.
- 2. Accomplishment of the measures must be confirmed in the log book.
- 3. In case of any doubt, contact Diamond Aircraft Industries.

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WORK INSTRUCTION

WI-MSB 20-049 WI-MSB 22-004

"INSTALLATION OF CANOPY SAFETY LOCK"

I. GENERAL INFORMATION

1.1 Subject:

The mandatory installation of a Canopy Safety Lock

1.2 Reference Documents:

Diamond Aircraft DV 20 Airplane Maintenance Manual, Doc. No. 4.02.02, latest effective issue.

1.3 Remarks:

- a) The work must be carried out by a certified aircraft service station or a certified aircraft maintenance mechanic. In case of doubt, contact Diamond Aircraft.
- b) All works, particular those that are not especially described in this work instruction, have to be carried out in accordance with the referenced maintenance manual issue.

II. DRAWINGS, SPECIAL TOOLS & MATERIAL

2.1 Drawings:

DV2-5221-01-00 Canopy Safety Lock Assembly (Kabinenhaubensicherung ZSB) or D20-5200-64-00

DV2-5221-00-00 Installation of Canopy Safety Lock (Kabinenhaubensicherung Einbau) or D20-5200-00-00

2.2 Special Tools:

none



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2.3 Material:

All required Materials are available from Diamond Aircraft Industries

<u>Qty</u>	<u>Description</u>	Part Number
1	MSB-20-049-Kit:	
1	Canopy Safety Lock Assembly	DV2-5221-01-00 or D20-5200-64-00
1	Locking Plate	DV2-5221-00-01 or D20-5200-00-04
1	Placard outside LH	DV2-1123-20-02
1	Placard inside RH	DV2-1124-20-02
1	Placard inside LH	DV2-1133-20-02
1	Placard outside RH	DV2-1134-20-02
2	Hexagon Screw M6 x 18	LN9037-06018 or LN 9037-06024
2	Washer M6	DIN6797-AM6-ZP or DIN6797A-6-ZP
1	Screw M5 x 10	DIN965-AM5x10-A2 or DIN965-M5x10-A2



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III. INSTRUCTIONS

1	Remove grip on LH side of the Canopy.	
2	Install Locking Plate and grip (refer to drawing DV2-5221-00-00 or D20-5200-00-00)	
	NOTE: The locking plate has four positions to install, use most forward possible position. Locking Plate must not interfere with instrument panel. If the locking plate contacts the instrument panel, use next position behind, until the clearance between the locking plate and the instrument panel is sufficient.	
	Use new (longer) screws and new washers.	
3	Mark center of the cutout in the Locking Plate and transmit it to the outside of the fuselage.	
4	Mark Position of Push-button and screw on the outside of the fuselage according to drawing DV2-5221-00-00 or D20-5200-00-00.	
5	Pre-drill hole (d 10 mm = 0.39 in) for the push button.	
6	Remove item 6 (Guide sleeve) of Canopy Safety Lock. (refer to drawing DV2-5221-01-00 or D20-5200-64-00)	
7	Position Canopy Safety Lock Assembly and mark cut out on the interior inside.	
8	Remove Canopy Safety Lock Assembly and cut out interior on marked position.	
9	Measure the thickness of the fuselage in the pre-drilled hole for the push-button.	
10	Mark hole for the fixing screw on the fuselage. Thickness of the fuselage + 27 mm (1.06 in) from the outside edge of the fuselage	
11	Pre-drill hole for the fixing screw (d 3.0mm = 0.12 in)	
12	Position Canopy Safety Lock again and check correct position of pre-drilled holes.	
13	Remove Canopy Safety Lock.	
14	Drill up hole for fixing screw (d 5.1 mm = 0.20 in) according to drawing DV2-5221-00-00 or D20-5200-00-00	
15	Drill up hole for Push-button (d 14.0 mm = 0.55 in)	
16	Install Canopy Safety Lock with fixing screw and Guide Sleeve.	
17	Install Placards (refer to drawing DV2-5221-00-00 or D20-5200-00-00)	
18	Do a functional test of the Canopy Safety Lock.	
19	Make entries as necessary in aircraft records.	









