



SERVICE BULLETIN OSB 315-66/1

I. TECHNICAL DETAILS

1.1 Category:

Optional

1.2 Aircraft affected:

| | |
|---------------------------|---|
| GROB G 103A TWIN II ACRO | Serial-No. 3544 – 34078 (with suffix „K“) |
| GROB G 103C TWIN III ACRO | Serial-No. 34101 – 34203 |

1.3 Time of Compliance:

At holders discretion

1.4 Subject:

ATA-Code: 53-00 Fuselage

1.4.1. Installation of stringers in rear fuselage

1.4.2. Cancellation of limitation of operation.

1.5 Reason:

Alert Service Bulletins ASB315-63 and ASB315-63/2 introduced a reduction of speeds for rough air v_B and the maximum flying speed v_{NE} . Aerobatic flights were provisionally prohibited.

Mandatory Service Bulletin MSB 315-65 / MSB 315-65/1 introduced revised Manual pages for operation in a reduced envelope:

This Service Bulletin OSB 315-66/1, in combination with Work Instruction OSB 315-66, must be completed to regain the full capability for Aerobatic Flight for GROB G 103A TWIN II ACRO and GROB G 103C TWIN III ACRO. Otherwise the reduced envelope as determined with MSB 315-65 / MSB 315-65/1 will remain valid.

NOTE: Execution of this Service Bulletin require, that MSB 315-65 be complied with before!

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GROB G 103C TWIN III ACRO



1.6 Concurrent documents:

Work Instruction OSB 315-66

1.7 Approval Note:

These information or instructions relate to change no. MÄM 315-27 and OÄM315-25 which have been approved by EASA / LBA.

The technical information contained in this document has been approved under the authority of EASA Design Organisation Approval No. EASA.21J.030.

1.8 Accomplishment/ Instructions:

1.8.1 Completion of all structural modifications and all associated measures in accordance with Work Instruction OSB 315-66.

1.8.2 Exchange of obsolete pages (Flight and Maintenance Manual) by revised pages (attached to this SB).

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|--|----------------------|
| Flight Manual GROB G 103A TWIN II ACRO (S/N 3544 - 3729) | Revision 5, 09.02.06 |
| Flight Manual GROB G 103A TWIN II ACRO (S/N 3730 - 34078) | Revision 6, 16.10.03 |
| Flight Manual GROB G 103A TWIN II ACRO Canadian issue | Revision 7, 16.10.03 |
| Flight Manual GROB G 103A TWIN II ACRO FAA issue | Revision 4, 16.10.03 |
| Flight Manual GROB G 103A TWIN II ACRO Italian issue | Revision 4, 16.10.03 |

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| Flight Manual GROB G 103C TWIN III ACRO | Revision 6, 16.10.03 |
| Maintenance Manual GROB G 103C TWIN III ACRO | Revision 6, 16.10.03 |

1.8.3 The following placard (attached near to the front/rear airspeed indicator) is to be removed.



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1.8.4 G 103A TWIN II ACRO:

Apply the following limitation placard over the existing placard on the front and rear RH cockpit side wall

| Maximum Flying Weight | 580 kp | 1280 lbs | | |
|------------------------------|---------------|-----------------|-----|-------|
| Maximum airspeeds | | km/h | fts | mph |
| In calm air: | V_{NE} | 250 | 135 | 155 |
| In rough Air: | V_{RA} | 180 | 97 | 115 |
| Aerotow: | V_T | 170 | 92 | 105,5 |
| Winch/ Automobile tow: | V_W | 120 | 65 | 74,5 |
| Airbrakes extended: | V_{FE} | 250 | 135 | 155 |
| Manoeuvring speed: | V_A | 180 | 97 | 115 |

1.8.4 G 103C TWIN III ACRO:

Apply the following limitation placard over the existing placard on the front and rear RH cockpit side wall:

| Maximum Flying Weight | 600 kp | 1323 lbs | | |
|------------------------------|---------------|-----------------|-----|-----|
| Maximum airspeeds | | km/h | fts | mph |
| In calm air: | V_{NE} | 280 | 151 | 174 |
| In Rough Air: | V_{RA} | 200 | 108 | 124 |
| Aerotow: | V_T | 185 | 100 | 115 |
| Winch/ Automobile tow: | V_W | 140 | 76 | 87 |
| Airbrakes extended: | V_{FE} | 280 | 151 | 174 |
| Manoeuvring speed: | V_A | 185 | 100 | 115 |

1.9 Repetitive Actions:

None

1.10 Mass (Weight) and CG:

Following the structural modification in accordance with Work Instruction OSB 315-66 a Weight and Balance report is to be completed. The CG must be within limits. The W&B Report is to be added to the Flight Manual and the Aircraft History Record.

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II. PLANNING INFORMATION

2.1 Material & Availability:

The material required for the modification in accordance with Work Instruction 315-66 may be ordered with the attached Purchase Order.

2.2 Special Tools:

N/A

2.3 Labour costs:

approximately 30 hrs.

2.4 Reference documents:

N/A

2.5 Credit:

N/A


III. REMARKS

- 3.1 The correct execution of the instructions may be performed by an authorised aviation workshop and has to be certified in the logbook by an authorised inspector.
- 3.2 If you have sold your aircraft in the meantime, would you kindly pass this information on to the new owner and forward his address and aircraft S/N to us..
- 3.3 For questions and assistance please contact:

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Tel.: +49 (08268) 998 105
Fax: +49 (08268) 998 200
e-mail: m.reinhold@grob-aerospace.de

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I.1. Updates

| No. | Page | Reference | Date | Signature | LBA - Approval |
|-----|------------|---|------------|-----------|--|
| 1 | 21 | Control of tailplane (TM315-11 only until S/N 3550) | 01.10.1980 | | |
| 2 | 1, 20, 20a | TM 315-58 | 04.11.1996 | | |
| 3 | 1, 18 | TM 315-52/2 | 14.02.1997 | | |
| 4 | 1, 5a, | MSB 315-65/1 | 09.02.2006 | | |
| 5 | 1, 5a, | OSB 315-66/1 | 09.02.2006 | |  |
| | | | | | |

If the fuselage reinforcement according to OSB 315-66/1 had not been performed the following is applicable:

The glider GROB G 103A "TWIN II ACRO" is derived from the GROB G 103 "TWIN II". Due to structural reinforcements the "TWIN II ACRO" is approved in the category "Acrobatic". According to MSB 315-65/1 only "simple aerobatics" (Loop, Turn, Lazy Eight, Chandelle, Spin) is approved (refer to II.2 and IV.9)

The

Flight Handbook for Aerobatics
GROB G 103A "TWIN II ACRO"
Edition February 1984
LBA approved

is invalid according to MSB 315-65/1 and must be removed from the Flight Handbook.

If the fuselage reinforcement according to OSB 315-66/1 had been performed the following is applicable:

The glider GROB G 103 A "TWIN II ACRO" is derived from the GROB G 103 "TWIN II". Due to structural reinforcements the "TWIN II ACRO" is approved and certified for acrobatics in conjunction with the following valid operating instructions:

Flight handbook for acrobatics,
GROB G 103 A " TWIN II ACRO",
edition February 1984,
LBA approved.

These operating instructions must be added to the flight manual and contain special instructions valid for acrobatic operations. Main modifications to the "normal" flight manual are contained in the following sections:

- | | |
|--|--------|
| - Airworthiness group (II. 1) | page 6 |
| - Permitted operating conditions (II. 2) | page 6 |
| - Minimum equipment (II. 3) | page 6 |
| - Maximum speeds (II. 4) | page 7 |
| - Flight envelope (11.5) | page 7 |
| - Load scheme (II. 8) | page 8 |

The following items were modified in the maintenance handbook with respect to the acrobatic version:

- Weights and moments of control surfaces (VI)

References to the flight handbook for acrobatics are shown on the affected pages of the "standard" flight manual.