

## GFA AIRWORTHINESS DIRECTIVE

- TYPE AFFECTED:** Grob Twin Astir series as follows:
- Twin Astir, serial numbers 3000 to 3291;  
Twin Astir Trainer, serial numbers 3008 to 3291 (with suffix "T");  
G 103 Twin II, serial numbers 3501 to 3729;  
G 103A Twin II Acro, serial numbers 3544 to 34078 (with suffix "K");  
G103C Twin III Acro, serial numbers 34101 and upwards,  
G103C Twin III, serial numbers 36001 to 36014
- SUBJECT:** Cracking of front mounting brackets of C of G (winch) release.
- BACKGROUND:** See attached Grob Service Bulletin MSB 315-62
- DOCUMENTATION:** Luftfahrt-Bundesamt (LBA) Airworthiness Directive No 2002-067 and Grob Service Bulletin No MSB 315-62 form part of this AD.
- ACTION REQUIRED:** Carry out actions as described in the above documentation.
- WEIGHT AND BALANCE:** Not affected.
- IMPLEMENTATION:**
1. Visual check of mounting brackets before 30 April 2002. If cracks are found, brackets must be replaced before further flight (but see Note 1 below).
  2. If no cracks are found, the aircraft may be returned to service but replacement brackets must be fitted before 30 September 2002.

**Notes:**

1. Aircraft launched by aerotow only, using the nose release, may continue to operate even if the winch release is still fitted and cracks are found as described above. Operations may continue until replacement brackets are fitted, or until 30 September 2002, whichever occurs first. During this interim period, such aircraft must be placarded "Winch/auto launching prohibited. Aerotow only, using nose release".

SIGNED:

SENIOR TECHNICAL OFFICER AIRWORTHINESS

For and on behalf of:

THE GLIDING FEDERATION  
OF AUSTRALIA

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2. If the aircraft is flying in an aerotow-only operation and has had its winch release removed, the requirements of this AD must be met when the winch release is refitted.

**COMPLIANCE:**

The requirements of this GFA Airworthiness Directive are mandatory. This Directive is issued pursuant to the Rules and Regulations of the Gliding Federation of Australia.



**Airworthiness  
Directive  
2002-067**

**Luftfahrt-Bundesamt**  
Airworthiness Directive Section  
Hermann-Blenk-Str. 26  
38108 Braunschweig  
Federal Republic of Germany

**Grob**

**Effective Date: March 21, 2002**

**Affected:**

Kind of aeronautical product: Sailplane  
Manufacturer: Grob, Tussenhausen-Mattsies, Germany  
Type: TWIN ASTIR  
Models / Serial numbers affected: TWIN ASTIR  
- S/N: 3000 - 3291  
  
TWIN ASTIR TRAINER  
- S/N: 3008 up to 3291 (with suffix "T")  
  
G 103 TWIN II  
- S/N: 3501 up to 3729  
  
G 103A TWIN II ACRO  
- S/N: 3544 up to 34078 (with suffix "K")  
  
G 103C TWIN III ACRO  
- S/N: 34101 and up  
  
G 103C TWIN III  
- S/N: 36001 up to 36014  
German Type Certificate No.: 315

**Subject:**

C of G Release hook - cracks at the forward attachment brackets

**Reason:**

After long time of operation, cracks at the forward C of G release hook attachment brackets might occur.

**Action / Compliance:**

1. Visually check the attachment brackets before April 30, 2002. If cracks have been found: replace the brackets before the next flight.
2. If no cracks were found: exchange the attachment brackets not later than September 30, 2002.

The actions must be done in accordance with the instructions of the manufacturers Service Bulletin.

**Technical publication of the manufacturer:**

Grob Service Bulletin No. MSB315-62 dated January 21, 2002 which becomes herewith part of this AD can be obtained from Messrs.:

GROB Luft- und Raumfahrt  
Lettenbachstrasse 9  
D-86874 Tussenhausen-Mattsies / Germany

Phone: ++ 49 8268 / 998139  
Fax: ++ 49 8268 / 998200  
e-mail: productssupport@grob-aerospace.de

**Holders of affected aircraft registered in Germany have to observe the following:**

Action has to be accomplished by the owner of the aircraft or an approved service station and to be checked and entered in the log book by a licensed inspector.

Enquiries regarding this Airworthiness Directive should be referred to Mr. Olaf Schneider, Airworthiness Directive Section at the above address, fax-no. 0049 531/2355-720. Please note, that in case of any difficulty, reference should be made to the German issue!



## SERVICE BULLETIN NO. MSB315-62

### I. TECHNICAL DETAILS

#### 1.1 Category:

Mandatory

#### 1.2 Airplanes affected:

TWIN ASTIR	S/N	3000 – 3291
TWIN ASTIR TRAINER	S/N	3088 – 3291 (with suffix „T“)
G 103 TWIN II	S/N	3501 – 3729
G 103A TWIN II ACRO	S/N	3544 - 34078 (with suffix „K“)
G 103C TWIN III ACRO	S/N	as of 34101
G 103C TWIN III	S/N	36001 - 36014

#### 1.3 Time of Compliance:

Instruction 1.8.1 (inspection):  
- inspection not later than 30 April 2002

Instruction 1.8.2 (replacement):  
- immediately, if cracks had been detected  
- not later than 30 September 2002

**Caution:** If the C of G release hook is removed IAW SB 315-35/2, an on-time inspection is sufficient. If the C of G release hook is installed again, the above listed compliance time is mandatory again.

#### 1.4 Subject:

ATA-Code: N/A  
C of G release hook

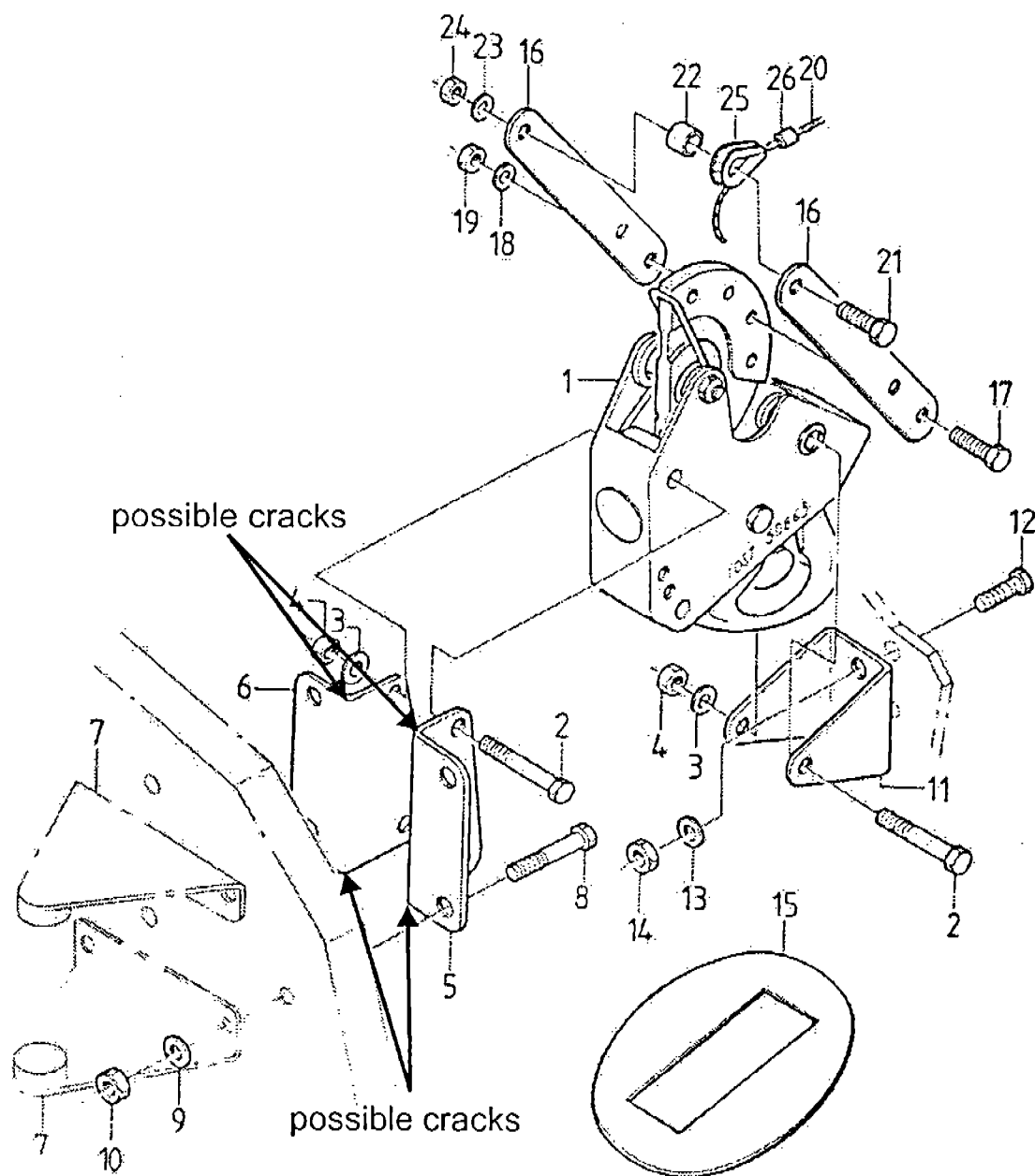
#### 1.5 Reason:

After long time of operation (i.e. towing using the C of G release hook) cracks at the forward C of G release hook attachment brackets might occur.

G 103A/B/C



**Caution:** Illustration below is only for G 103A TWIN II ACRO ! For other models a different arrangement is possible !



#### 1.6 Concurrent documents:

N/A

G 103A/B/C



### 1.7 Approval Note:

These information or instructions relate to change no. 315-149 which has been approved under the authority of JAA Design Organisation Approval No. LBA.NJA.008.

The technical information contained in this document has been approved under the authority of JAA Design Organisation Approval No. LBA.NJA.008.

### 1.8 Accomplishment/ Instructions

**1.8.1** The attachment brackets P/N 103-2235.03 and 103-2235.04 or 103B-2360.01 and 103B-2360.02 must be checked for cracks as follows:

- remove rear seat
- check the brackets for possible cracks, refer to illustration on page 2 (if necessary use mirror and pocket lamp)

**Caution:** If cracks are determined, replace the brackets immediately IAW 1.8.2 !

- install rear seat

**1.8.2** Both forward C of G release hook attachment brackets must be replaced as follows:

- remove rear seat
- remove L/H and R/H instrument panel cover
- remove **front** attachment of the C of G hook (item 2, 3, 4), loosen rear attachment (item 12, 13, 14)
- remove attachment brackets (page 2, item 5 and 6)
- install new brackets P/N 103B-2360.01/2 and 103B-2360.02/2

**Caution:** On TWIN ASTIR and TWIN ASTIR TRAINER the additional plate P/N 103-2360.02 must be installed below the attachment brackets.

**Note:** During installation the new locking nuts, included in the mod set, must be used.

- install and tighten all loosened connections and check for tight fit
- install L/H and R/H instrument panel cover
- install rear seat
- perform function test of the C of G release hook

### 1.9 Repetative Actions

N/A

### 1.10 Mass (Weight) and CG:

negligible



## II. PLANNING INFORMATION

### 2.2 Material & Availability:

Mod set consisting of:

- 1 attachment bracket L/H 103B-2360.01/1
- 1 attachment bracket R/H 103B-2360.02/1
- 2 plates 103-2360.02 (**ONLY TWIN ASTIR AND TWIN ASTIR TRAINER!**)
- 6 nuts LN 9348-M6

can be ordered from GROB (for order refer to para 3.3)

### 2.3 Special Tools:

N/A

### 2.4 Labour costs:

- inspection: approx. 20 minutes
- replacement: approx. 2 hours

### 2.5 Reference documents:

N/A

### 2.6 Credit:

N/A

## III. REMARKS

- 3.1 The correct execution of the instructions may be performed by a competent person/ 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:  
Rudi Vodermeier , Head of Product Support,  
phone: +49 8268 998139  
fax: +49 8268 998200  
e-mail: productsupport@grob-aerospace.de

G 103A/B/C