



C4/1-13 THE GATEWAY,  
BROADMEADOWS  
VICTORIA 3047  
PHONE +61 (0) 3 9359  
9865, FAX +61 (0) 3 9359  
1613. ABN: 82 433 264 489

# AIRWORTHINESS DIRECTIVE


THE GLIDING FEDERATION OF AUSTRALIA Inc

## GFA AD 561 Issue 3

Date: 12 July 2017

Note: This Airworthiness Directive is issued by the Gliding Federation of Australia

<b>Type Certificate Holder</b>	Fiberglas-Technik Rudolf Lindner GmbH & Co
<b>Manufacturer(s)</b>	Grob Aerospace
<b>Types/Models Affected</b>	Grob G 102 Club Astir III " G 102 Club Astir IIIb " G 102 Standard Astir III
<b>Serial Numbers</b>	Grob G 102 Club Astir III, S/Ns 5501 to 5652 (Suffix C)  " G 102 Club Astir IIIb, S/Ns 5501 to 5652 (Suffix Cb)  " G 102 Standard Astir III, S/Ns 5502 to 5652 (Suffix S).
<b>Subject</b>	Elevator Flutter At High Speed
<b>Implementation</b>	VNE restrictions are required by Action 1 immediately and is <b>MANDATORY</b> . The limitations on $V_{NE}$ can be lifted by completing Action 2 of this AD. Action 2 is recommended by not mandatory.
<b>Background</b>	Grob issued three service bulletins with respect to elevator flutter on Astir III aircraft.  Service Bulletin MSB306-36/1 initially grounded operation of the Astir III aircraft.  Service Bulletin MSB306-36/2 permitted operation of the Astir III aircraft with a reduced maximum speed $V_{NE}$ .  Service Bulletin MSB306-36/3 allowed operation with the original $V_{NE}$ after additional mass balance is installed into the elevator and ailerons.  Issue 3 of this AD clarifies that Action 2 of this AD is not mandatory provided that Action 1 is complied with.
<b>Documentation</b>	1. Service Bulletin MSB306-36/1. Elevator Flutter  2. Service Bulletin MSB306-36/2. Reduction of $V_{NE}$ .

	<p>3. Service Bulletin MSB306-36/3. Increase of Mass Balance</p>
<b>Required Action(s)</b>	<p>1. Apply a red mark on the airspeed indicator at 89 knots using instrument decal, marking tape or similar. Apply a red placard to the airspeed indicator as shown in Figure 1.</p> <p>Enter a minor defect into the maintenance release stating "AD561 Issue 3 Action 2 not carried out – VNE restricted to 89 kts".</p> <p>At each Annual Inspection the minor defect is to be entered into the new maintenance release. The decal and airspeed indicator mark should be inspected for adhesion and clarity.</p> <p>At each Annual Inspection the Annual Inspection Report is to have a statement "AD561 Issue 3 Action 2 not carried out. Aircraft operating with reduced VNE."</p>  <p>The image shows a circular airspeed indicator (ASI) with a black face and white markings. The scale ranges from 0 to 140 knots, with major markings every 10 knots and minor markings every 2 knots. A red line is drawn across the scale at the 89-knot position. A red rectangular placard is attached to the center of the ASI, displaying the text "VNE = 89 kts" in red, with "AD 561 Issue 3" in smaller red text below it. The ASI is mounted on a dark panel with four screws.</p> <p><b>Figure 1: ASI Markings for Action 1</b></p> <p>2. Carry out the actions specified in Grob Service Bulletin MSB306-36/3. When this action is complete, the V<sub>NE</sub> may be restored to its original value and the red mark and decal on the airspeed indicator can be removed.</p>
<b>Compliance, Compliance Time(s) and Frequency</b>	<p>Compliance with this Airworthiness Directive is mandatory and compliance, including action taken pursuant to this Airworthiness Directive must be recorded in the aircraft log book, annually.</p>

<b>Effect on Weight and Balance</b>	<p>Action 1: No effect on W&amp;B.</p> <p>Action 2: The aircraft must be reweighed after completion of mass balance installation at Action 2.</p>
<b>Effective Date</b>	12 July 2017



## SERVICE BULLETIN NO. MSB306-36/3

### I. TECHNICAL DETAILS

#### 1.1 Category:

**MANDATORY**

#### 1.2 Airplanes affected:

G 102 CLUB ASTIR III	S/N 5501 - 5652 (with suffix "C")
G 102 CLUB ASTIR IIIb	S/N 5501 - 5652 (with suffix "Cb")
G 102 STANDARD ASTIR III	S/N 5502 - 5652 (with suffix "S")

#### 1.3 Time of Compliance:

Not later than 31 December 2002

#### 1.4 Subject:

ATA-Code: ---

**Increase of mass balance**

#### 1.5 Reason:

With MSB 306-36/2 the operation of the above listed gliders was permitted with reduced maximum speed  $V_{NE}$ . The result of extensive tests and calculations was, that the operation within the original margins can be approved, if additional mass balance is installed into the elevator and ailerons.

**NOTE:** The MSB 306-36/2 is cancelled after completion of this MSB.

#### 1.6 Concurrent documents:

None

#### 1.7 Approval Note:

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

**G 102 Standard Astir III  
G 102 Club Astir III / IIIb**





The technical information contained in this document has been approved by the German Airworthiness Authority Luftfahrt-Bundesamt.

### **1.8 Accomplishment/ Instructions**

- 1.8.1 Additional mass balance must be installed into the elevator and ailerons IAW Installation Instructions No. MSB306-36/3.
- 1.8.2 Revision 2, (Rev. 3 for Italian Issue) 18.04.02 must be incorporated into the Maintenance Manual.
- 1.8.3 Remove the red marking (at 165 km/h, 89,1 kts, / 102,5 mph) from the airspeed indicator.

### **1.9 Repetitive Actions**

None

### **1.10 Mass (Weight) and CG:**

The empty weight and empty weight C of G must be determined newly after completion of instruction 1.8.1.

## **II. PLANNING INFORMATION**

### **2.1 Material & Availability:**

The material including Installation Instructions No. MSB306-36/3 can be ordered from GROB with the attached order form.

### **2.2 Special Tools:**

refer to Installation Instructions

### **2.3 Labour costs:**

approx. 10 hours (without hardening and curing time)

### **2.4 Reference documents:**

N/A

G 102 Standard Astir III  
G 102 Club Astir III / IIIb





**2.6 Credit:**

N/A

**III. REMARKS**

- 3.1** The correct execution of the instructions may be performed by a competent person 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](mailto:productsupport@grob-aerospace.de)

G 102 Standard Astir III  
G 102 Club Astir III / IIIb