#### British Gliding Association - Technical Committee

#### **Technical News Sheet 02/02**

Part 1 Airworthiness issues (all categories)

1.1 Correction to TNS 11/12/01 item 1.8

Schempp-Hirth Discus 2b

TN360-17 LBA AD 2001-259 (Mandatory)

Landing Gear inspection and Modification

1.2 Elliots of Newbury Olympia 460 series

BGA 025/02/2002 issue 1 (Mandatory)

Metal reinforced wing spar – continued airworthiness inspection
Annual and Five Year checks
Details enclosed and sent to owners

1.3 **DG 800B** Production Change 800-14-01 (information)
Powerplant retaining cable mounting in fuselage improvement
Maintenance manual amendment

1.4 **DG 800B** TN873/26 (Recommended) Powerplant and electrical system modifications and manual revision

1.5 **DG800S** TN384/8 (Recommended)
Maintenance manual revision

1.6 **LET L13, L23 & L33** 136/6000/02 (Information) List of manufacturers service bulletins

Available direct from LET. Subscription order form in TNS 11/12/01.

1.7 **Rolladen-Schneider LS7** TB 7015, AD 2002-043 (Mandatory) Extension of service time

AD details enclosed. TB details by e-mail [isflug@aol.com]

1.8 Rolladen-Schneider LS8, LS8-a, LS8-18

TB 8011 (Recommended)

Flight and Maintenance manual re issue.

1.10 **Scheibe SF34** SB 336-10, AD 2002-044 (Mandatory)

Flight controls rear stick AD details enclosed

1.11 **Schempp-Hirth Mini Nimbus** reported by Michael Burrows. (Information) Cracks in elevator inner hinge mounting lugs on rear spar of tailplane.

Modified rotary valve cover  1.20 Rotax 2-Stroke engines SI-2ST-004 Running modifications  1.21 Sutton Harnesses CAA AD 002-12-2001 Integrity inspections and lifting (Contact - Anglia Sailplanes 07860 545812)  Part 2 Modifications  (Information) (Mandatory)							TNS 02/02	
Inspection of adhesive bonded joint Details sent to owners  1.14 Rotax 912 series SB 912-029 (Mandatory) Checking crankcase  1.15 Rotax 912 UL series SB 912-029UL (Mandatory) Checking crankcase  1.16 Rotax 914 series SB 914-018 Rev.1 (Mandatory) Checking crankcase (replaces SB 914-018)  1.17 Rotax 914 UL series SB 914-018UL Rev.1 (Mandatory) Checking crankcase (replaces SB 914-018UL)  1.18 Rotax 582UL series SB-2ST-001 (Mandatory) Inspection or replacement of exhaust tension spring  1.19 Rotax 582 UL series SI-2ST-005 (Recommend Modified rotary valve cover  1.20 Rotax 2-Stroke engines SI-2ST-004 (Information) Running modifications  1.21 Sutton Harnesses CAA AD 002-12-2001 (Mandatory) Integrity inspections and lifting (Contact - Anglia Sailplanes 07860 545812)  Part 2 Modifications  Type Subject Mod No Contact Contact SHK-1 Relocate harness attach. BGA 2002/01 BGA SHK-1 Relocate winch hook BGA 2002/02 BGA	1.12	Undetected damag tailplane mounting of the area especia	lugs. Ca	vator leading edges are is needed during	possibly by co rigging and o	ontact v careful	with inspection	
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#### Part 3 General Matters

### 3.1 Weighing When?

As previously reported the normal weighing interval for gliders is now 8 years unless the aircraft has been recovered, repainted or substantially repaired or whenever the weighing information is believed to be inaccurate.

It is recommended that motor gliders and tugs are also re-weighed at 8 year intervals. Mandatory Airworthiness Notice No 38 applies after painting.

#### The Data?

On many occasions the figures submitted are mixed metric and imperial units (Kgs/mm or Lbs/ins). To eliminate confusion the all figures must be in either Metric or Imperial and not mixed. It is recommended that the same system is used throughout the aircraft life. This is a flight safety issue as a pilot will be used to calculating the cockpit load in one system or the other and saves conversion during the DI and possible mistakes.

#### 3.2 Overseas BGA Glider C of A – Qualifications

To qualify for a BGA C of A outside the UK the aircraft and owner have to meet certain requirements.

- 1/ BGA approved type
- 2/ The owner must be a UK National
- 3/ The aircraft must be inspected by a BGA authorised inspector
- The owner should be aware that the BGA may require to inspect or audit the aircraft or inspectors work at their expense

#### Exempt types

- 1/ British Vintage Gliders that are unable to obtain type approval in other countries and where the type was originally certified in the UK
- 2/ All Gliders owned and operated within the UK
- 3/ BFPO and UK Nationals on short term contracts overseas
- 4/ Special projects

The BGA is not an ICAO organisation and it may be necessary to seek approval from the local airworthiness authority to operate the aircraft outside the UK

#### 3.3 **Grob single seat aircraft**

Grob have disposed of the single seat aircraft spares support business as detailed below. Grob still retain full airworthiness responsibility and will continue to support single seat aircraft (Astir's) for airworthiness information.

The new supplier is:

Fiberglas-Technik

Rudolf Lidner GmbH & co KG

Alpenweg 11

D-88497 Walpertshofen

Germany

Tel; +49 7535 2243 Fax; +49 7535 3096

Soaring Oxford remain the UK agents for Grob two seat gliders and motor gliders. Mark Davies also informs us that they still have a few dedicated Astir parts and 2 seat common parts in stock and can obtain from Grob.

Compliance Statement:

All mandatory inspections and modifications have been included up to the following;

Airworthiness Notices, Contents issue 129
Mandatory Aircraft Modifications & Inspections Summary, issue 256
FAA Summary of Airworthiness Directives. Bi-weekly listing 2002-03
Foreign Airworthiness Directives Vol. I and II – CAA Additional Airworthiness Directives, issue 330
Foreign Airworthiness Directives, issue 340
CAA Mandatory Permit Directives, issue 2002/1

Jim Hammerton Chief Technical Officer



# British Gliding Association Aircraft Inspection

Mandatory

025/02/2002 Number:

ssne:

Date: 15<sup>th</sup> February 2002

Subject:

Wing spar corrosion - continued airworthiness inspections

Applicability:

Elliots of Newbury Olympia 460 series with metal reinforced main spars

Part 'A' at the next and every C of A annual inspection after effective date

Part 'B' at FIVE YEAR intervals from the effective date Accomplishment:

The effective date of this inspection is  $31^{\mbox{\tiny st}}$  March 2002.

Reason:

To ensure the continued airworthiness of the wing spar and to provide early detection of any corrosion or

that are completing the Annual check now to be completed, but it is recommended that this inspection is carried out deterioration of the joint between the wood and metal elements of the spar. The effective date will allow aircraft

Instructions:

All effected aircraft must have had the Mandatory inspection of the wing spar completed TNS 12/96

AND the spar Stabilisation modification BGA/OLY/460 Series 1/97 completed.

Part 'B' see pages 2, 3, 4, 5 & 6 Part 'A' see pages 2 & 6

Approved By

Jim Hammerton, Chief Technical Officer

Thanks to Keith Green and Ian Smith, members of Lasham Gliding Society and the Vintage Glider Club for their assistance in researching this inspection. The inspection also contains requirements from the BGA Technical Committee.

Issued by - The British Gliding Association Ltd, Kimberley House, Vaughan Way, Leicester, LE1 4SE, U.K.

Note: Mandatory inspections must be recorded in the aircraft log book, unless specified, and certified by an appropriately rated BGA inspector. Optional inspections should be entered into the D.I. book or log book as appropriate. Optional inspections may be certified by a BGA Pilot. Alternative methods of compliance will be considered providing an equal level of safety is accomplished. Contact BGA for authorisation.



#### BGA Mandatory inspection 025/02/2002 issue 1

#### Part A (1 page)

**Annual inspection procedure** (to be completed at the next and every annual C of A inspection after the effective date)

- 1. With the aircraft de-rigged and the wings supported on suitable trestles
- Remove any paint or other protective coating (including adhesive spew) that prevents a clear view
  of the top and bottom edges of both the upper and lower spar boom aluminium laminates and the
  metal/wood interface inboard of the closing rib (the spar stub). Do not scratch the aluminium. The
  use of paint stripper is prohibited as this may have a detrimental effect on the spar
  bonding.

Note; removal of ply or wing skin is not required

- Carefully inspect all bond lines of the aluminium laminates and the wood to aluminium interface. A
  magnifying glass may be necessary.
- 4. As far as non-intrusive access allows, inspect the bond lines on the inside of the wing via lower surface access panel using mirror and light or other suitable inspection equipment. Particular attention should be paid to the area around the closing rib.
- 5. If further investigation is deemed necessary, consider drilling an access hole on the centre line of the closing rib, about two inches in front of the front face of the spar. It will also be necessary to drill through the next rib. A flexible mirror and light source, or endoscope will be required. On some aircraft a tooling hole is present in the fwd closing rib, this may be suitable for inspection access and negate the need for further holes. Any holes cut must be adequately re-protected.

  Any evidence of corrosion or other defects must be investigated and rectified before further flight. Please report any such defects to the BGA.
- 6. Ensure the 2BA bolts of the mandatory modification are correctly tightened (do not over tighten, the aluminium packs should be straight).
- 7. Inspect the wing attachment fittings and hardware for correct installation, self-locking nuts in safety and for corresion.
- 8. Inspect the wing spar to the closing rib for condition of protective paint finish. Rectify any defects.
- 9. Restore protective finish to stripped area. (see notes on the use of clear varnish)
- 10. Complete logbook entry to show compliance with this inspection Part 'A'.



#### BGA Mandatory inspection 025/02/2002 issue 1

#### Part B (2 pages)

Five year check (measurements to be recorded every five years from the effective date of this inspection)

- 1. Complete Part 'A' of the inspection items 1 to 8.
- 2. Remove the Stainless Steel protector plate having first removed the wing spigot bush assembly
- 3. Clean the spar area previously covered by the protector plate in accordance with the instructions in part 'A' item 2.
- 4. Inspect the spar area previously covered by the protector plate for any signs of corrosion or deterioration in accordance with part 'A' item 3 & 5 as applicable.
- 5. Inspect the removed wing spigot bush for serviceability.
- 6. Note the temperature. If the wings are at a lower or higher temperature than ambient note the temperature of the wings. Ideally the temperature of the wings should be allowed stabilize.
- 7. With a micrometer (preferred) or a digital vernier gauge, measure the width of the spar booms, on the centre line of the boom at positions (A) to (F) as detailed below (see sketch for positions)
- 8. **Top boom** position (A), between the two visible 2BA bolts of the mandatory modification.
- 9. Top boom position (B), between the inboard 2BA bolt and the joint plate.
- 10. **Top boom** position (C), between the closing rib and the middle 2BA bolt of the mandatory modification. See note.
- 11. Lower boom position (D), 1 inch from the closing rib
- 12. Lower boom position (E), 1 inch from the spar joint plate.
- 13. Lower boom position (F), at a point midway between point (D) & (E)

Note: depending on the layout of the stabilization modification it may not be possible to measure position (C) if this is the case a note should be made in the log book when recording the measurements

14. Record the positions and measured widths and the temperature in the logbook.

- 15. The width of the spar, at the various measurement locations, should be compared to previous measurements (after the initial measurements). If the measurements are increasing, then corrosion in the bond lines should be suspected and a very careful inspection undertaken. Allowance should be made for the normal dimensional changes brought about by change in water content of the wood and temperature. It is desirable to let the wings stabilise at room temperature before taking the spar width measurements, and note the temperature in the logbook.
- 16. Restore the protective finish of the stripped area. (see notes on the use of clear varnish)
- 17. Refit the Stainless Steel protector plate and wing spigot bush. The protector plate may be sealed against water ingress but please remember that it will require removal in another five years.
- 18. Complete the log book entry to show compliance with this inspection Part 'A' and 'B' and ensure the measurements and temperature is recorded as these will be required in the future.

Wing stabilisation Mod (3 places) Closing \_\_ Rib Ω ပ Wing spigot location  $\|\cdot\|$ ட 1 Olympia 460 Wing measurement locations ш. Ω



#### BGA Mandatory inspection 025/02/2002 issue 1

#### Notes (1 page)

- 1. Do not mark the aluminium with pencil
- 2. Avoid scratching the surface of the aluminium. Any minor surface scratches should be blended using wet and dry paper or scotch brite.
- 3. Do not use paint stripper or steel wire brushes.
- 4. Great care should be exercised in removing the Wing Spigot bush as it is made from a bronze material and may shear if corroded. The drive flats or slots will also be easily damaged by poorly fitting tools.
- 5. Inspection of four Olympia's (including 460, 463 and 465 types) identified the wood to metal bond, at the point where the spar enters the closing rib, as the area most likely to suffer corrosion.
- 6. A good spar will present all bond lines as thin dark brown lines. It should not be possible to insert a thin feeler gauge (0.003"). Crack detection fluid (if used), should not identify any voids in the metal/metal or wood/metal bond lines.
- 7. A corroded spar will present sections of the bond line as grey in colour and it may be possible to insert a thin feeler gauge (0.003") into the bond line at this point. The grey material is the product of corrosion and is more friable than good adhesive.
- 8. The width of the spar, at the various measurement locations, should be compared to previous measurements. If the measurements are increasing, then corrosion in the bond lines should be suspected and a very careful inspection undertaken. Allowance should be made for the normal dimensional changes brought about by change in water content of the wood and temperature. It is desirable to let the wings stabilise at room temperature before taking the spar width measurements, and note the temperature in the logbook.
- 9. At the conclusion of the inspection, the stripped area should be carefully sealed.
- 10. In order to avoid stripping the finish every year, a transparent finish should be considered that is compatible with the other materials involved. The Elliott factory used copal varnish.



#### **Airworthiness Directive** 2002-043

#### Luftfahrt-Bundesamt

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

Effective Date: February 21, 2002

#### Rolladen-Schneider

Affected:

Kind of aeronautical product:

Manufacturer:

Type:

Models affected:

Serial numbers affected:

German Type Certificate No.:

Sailplane

Rolladen-Schneider, Egelsbach, Germany

LS<sub>7</sub>

only LS 7-WL

all 375

Subject:

Extension of the service time

Reason:

The results of fatigue tests (subsequently carried out on wing spar sections) have demonstrated that the time in service of GFRP sailplanes may be extended to 12000 hours, provided the airworthiness of each individual aircraft is evidenced by a special multi-stage inspection program, which is incorporated into the Maintenance Manual.

Action:

Perform an inspection according to the "Inspection program for extending the service time" in accordance with the Technical Notes of the manufacturer.

Compliance:

The action must be performed before reaching a service time of 3000 flight hours.

Technical publication of the manufacturer:

Rolladen-Schneider LS 7-WL Technical Bulletin No. 7015 Edition 15. November 2001 which becomes herewith part of this AD and may be obtained from Messrs.:

Rolladen-Schneider Flugzeugbau GmbH Mühlstrasse 10

D- 63329 Egelsbach Federal Republic of Germany Phone: ++ 49 6103 204126 Fax: ++ 49 6103 45526

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

Action 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.

As a result of the a.m. deficiencies, the airworthiness of the aircraft is affected to such an extent that after the expiry of the a.m. dates the aircraft may be operated only after proper accomplishment of the prescribed actions. In the interest of aviation safety outweighing the interest of the receiver in a postponement of the prescribed actions, the immediate compliance with this AD is to be directed.

An appeal to this notice may be raised within a period of one month following notification. Appeals must be submitted in writing or registered at the Luftfahrt-Bundesamt, Hermann-Blenk-Str. 26, 38108 Braunschweig.



#### Airworthiness Directive 2002-044

#### Luftfahrt-Bundesamt

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

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#### **Scheibe**

Effective Date: February 21, 2002

Affected:

Kind of aeronautical product:

Manufacturer:

Type:

Models affected:

Serial numbers affected:

German Type Certificate No.:

Powered Sailplane

Scheibe-Flugzeugbau, Dachau, Germany

SF 34 SF 34 B

5122 up to 5141

336

#### Subject:

Flight Controls - rear control stick

#### Reason:

A routine check has showed, that socket head screw was broken. These socket screw connects upper and lower part of the rear control stick. If the connection by socket head screw failed between both parts of the control stick, the controllability of the glider is endangered.

#### Action:

Inspection and if necessary modification of the control stick assembly in accordance with the Technical Notes of the manufacturer.

#### Compliance:

The action must be done not later than February 28, 2002.

#### Technical publication of the manufacturer:

Scheibe Service Bulletin No. 336-10 dated November 07, 2001 which becomes herewith part of this AD and may be obtained from Messrs.:

Scheibe Flugzeugbau GmbH August-Pfalz-Str. 23

D- 85221 Dachau Federal Republic of Germany Phone: ++ 49 8131 72083 Fax: ++49 8131 736985

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

Action 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.

As a result of the a.m. deficiencies, the airworthiness of the aircraft is affected to such an extent that after the expiry of the a.m. dates the aircraft may be operated only after proper accomplishment of the prescribed actions. In the interest of aviation safety outweighing the interest of the receiver in a postponement of the prescribed actions, the immediate compliance with this AD is to be directed.

An appeal to this notice may be raised within a period of one month following notification. Appeals must be submitted in writing or registered at the Luftfahrt-Bundesamt, Hermann-Blenk-Str. 26, 38108 Braunschweig.

wibe-Flugzeugbau GmbH August-Pfaltz-Str. 23 rigter Entwicklungsbetrieb LBA.NSD.008 85221 Dachau

Page TCDS:: 336 Page 1 of 2 SF 34 B

Service Bulletin 336-10

Cockpit Controls - rear control stick

Suject

Affected: Glider of following Type:

SCHEIBE-Flugzeugbau GmbH SF 34 B, Gerätekennblatt 336: Serial-N°: 5122 and up to 51: 5122 and up to 5141

## Urgency. Not later than February 28, 2002

Reason.

DIN 912-8.8 failed between both parts of the control stick - controlability of the and lower part of the rear control stick. If connection by socket head screw M8x18 of following picture 1) was broken. These socket head screw connects upper-A Routine check has showed, that socket head screw M8x18 DIN 912-8.8(part 6 glider is endangered.

screw was drilled additional 2x at same distance to the screw head 90° misplaced improperty at a wrong position (see position 8 of following picture 1). Socket head (arnothing 3mm and arnothing 2mm). Through that the pretended cross-section of the thread At the affected glider the socket head screw M8x18 DIN 912-8.8 was drilled was important lessened

## Actions:

- Remove the rear control stick
- Remove part 1 (see picture 1)from the control stick; for this remove split (part 6, picture 1). After this pull out part 1 from control stick pin (part 8, picture 1) and remove socket head screw M8x18 DIN 912-8.8
- ω Check for correct drilled split pin hole in the control stick and the socket head screw like picture 1 and 2.
- secure with a splint pin and install the completed control stick in the rear If splint pin hole is drilled correct, installation of part 1 into the control stick,
- Ö control stick must be closed by WIG-welding from a certified WIG-welder. If splint pin hole is not drilled correct after picture 1 and 2, holes in the screw M8x18-8.8 DIN 912; lubricate brass buchings. Drill splint pin hole After that holes must be drilled after picture 1 and 2. Renew socket head (Ø 2mm) only if controlstick is completed and install the splint pin. Take care that part 1 rotates easy in the control stick
- ō At installation of all removed parts renew all elastic Stop nuts

## Masses and C.G.: ¥ ∑

Remarks

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The inspection has to bu codified in the log book by an authorized

SCHILLINGZengbau GmbH Dashau, November 7, 2001

LBA- approved:

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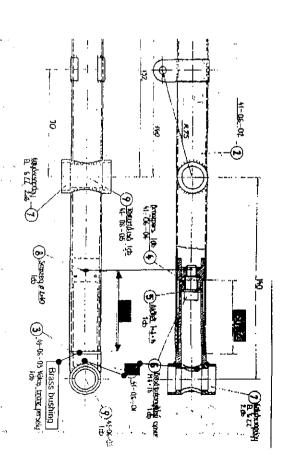
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Service Bulletin 336-10

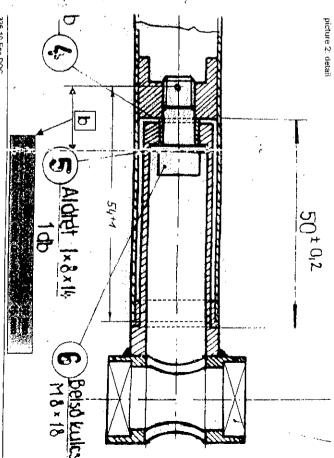
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2 of 2



picture 1: rear control stick



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