### B.G.A. TECHNICAL COMMITTEE

### TECHNICAL NEWSHEET

### TNS/5/6/88

# PART 1 AIRWORTHINESS "AGGRO". (Please add to the 1988 Red Pages)

- 1.1 ASW 15 & ASW 15B. In Flight Failure of Wing Structure
  - LBA A/D 88 95 and Schleicher T/Note 23 (herewith) require borescope inspection for penetration of water, and a mould fungus which destroys the balsa spar webs. (Mailed to owners 10/5/88). Could apply to other types incorporating balsa wood.
- Putchatz Top Rudder Hinge Failure, probably due to tail skid impact damage. The attached sketch recommends areas for inspection, and the introduction of a T.21 skid rubber to the tail skid. (Reported by P. Marks).
- 1.3 <u>Ventus Tailplane</u>, skin damaged by mass balance weight. Damaged whilst rigging. (Sketch from Clevelands G.C.)
- Glasflugel Libelle (all series) Kestrel 604 and BS-1. FA
  AD/88-07-05 draws attention to the need to inspect rudder
  cables fitted with DIN spec 655, 6 x 7 cables of 2.5mm
  diameter having a hemp core, and to replace as necessary
  Hansjorg Streifender T/Notes 201/26, 301/33, 401/20 and 501/4
  dated 13/3/87 refer.
- 1.5 <u>Astirs (Retractables) Front undercarriage</u> leg hinge pin circlips become detached, and the pin works itself out. (Cotswold G.C/T. MacFadyen).
- 1.6 <u>LS1, LS3, LS4, Loose Wing Root Rib Pins</u>. Gliding Federation of Australia sketch (herewith) requires inspection. Repair scheme as recommended is acceptable to BGA.
- 1.7 <u>Kestrel Aileron Skew drives</u>, excessive free play leading to flutter. Assembly with LOCTITE at every joint will minimise backlash. (T. MacFadyen).
- 1.8 <u>Blanik. Forward Tailskid Attachment</u> Repair scheme. The attached sketch from Tony Moss (Borders G.C) is approved by B.G.A.
- 1.9 ASK 21. Speed Brake Lever Failure at the "Splitter" output to each brake. T/Note 20 in TNS 3/4/88 refers (Reported by Midland G.C.)

- Flexible Hose Failures. The attached photograph from AAIB Bulletin 5/88, is self explanatory. Could apply to fuel, 1.10 hydraulic or lubrication hoses.
- 1.11 Extracts from GASILS (herewith).
  - Incorrect spark plugs. (Check for approved types).

IGNITION SWITCH failure. (Chipmunk).

- PA18 Cub Controls obstructed.
- 1.12 Hoffman Propellers. Inspection of propeller blades. CAA Foreign Airworthiness Directive Vol III, 88-20 refers.
- 1.13 Janus CM. Fuel Supply. CAA A/D Vol III 86-135 refers.
- PA25-235 Pawnees. Failure of tailwheel springs. 1.14 Recurring failures are likely to occur. Spares should be provisioned. Also the tailwheel bolts.
- 1.15 PA25 - 235 Pawnee - Seperation of the Brake Disc from the Drum, due to fatigue or corrosion. Cleveland spares should be provisioned. Inspect on D.I. (2 cases reported).
- <u>Duplicate Inspection of Controls</u>, and of Critical Joints attached copy of BCAR Section A5-3 is self explanatory. 1.16

## PART 2 GENERAL MATTERS

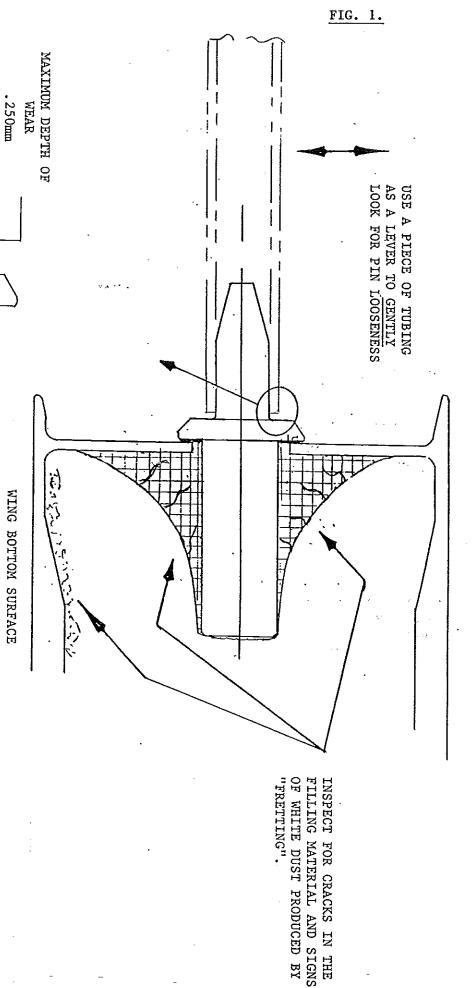
### 2.1 Weighing

- a) Weighing Technical Services (Bill Galen) is contactable on 063877-342.
- b) Digital bathroom scales cost not much more than £25.00. Hopefully their accuracy is more predictable.
- The removal of some 141bs of instruments, on transfer of ownership, caused a significant C.G. shift, which was not corrected with ballast. Commonsense failed to prevail!.
- d) Aircraft should be reweighed whenever their is doubt.
- 2.2 Tech/Bulletin 3038 details the inspection LS3 (Variants). required to extend the life from 3000 hours to 6000 hours.
- 2.3 Whereas the BGA is dedicated to the cause of "nondedicated" sources of supply of Mogas, operators of tugs are advised to check that their Insurance Policies are suitably endorsed. Avgas supplies are now available from Baker Petroleum (Exeter), Conoco, Cyma (London) and Shell & BP. (Carless petroleum of Harwich, supply 80/87 unleaded).

- BGA Form 267 (General purpose Glider Airworthiness Report). The signing of this report by a BGA Inspector signifies beyond all reasonable doubt, that the glider to which it referes, is fit for the issue or renewal of its Certificate of Airworthiness. Therefore, it must not be signed if any deferred items effecting airworthiness, remain unresolved. Two recent cases resulting in controversy, have been reported.
- "Cosmetics". The airworthiness of aircraft is seldom compromised by poor finish. Protection against corrosion, or water penetration, is a matter affecting airworthiness and is part of a C of A renewal process. The B.G.A. does not wish to become embroiled in commercial disputes which arise because cosmetic repairs have not been included in a C of A renewal inspection. If you take your car for its M.O.T, you will not get a free re-spray!.

R.B. STRATTON.

CHIEF TECHNICAL OFFICER.



GFA (Australia)

LS3 AND LS4 DIFFER IN DETAILS

SECTION SHOWN IS LS1

(S). 153. 154

WING TOP SURFACE

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	15
	,

SHEET:

ASW 15 Technical

Note

Alexander Schleicher

.6

6416 Poppenhausen Segelflugzeugbau

Мо. 23

	1	7	74.	
	SHEET: 1 of 4	<u>.</u>	ASV 15 Technical Note No. 23	Alexander Schleicher Segellingzengbau 6416 Poppenhausen
•	Subject:	Inspec	Inspection and interior preservation of the wing spar	of the wing spar.
	Serial number applicability:	All As includ	All ASV 15 and 15 B, including all conversions into motor gliders.	gliders.
	Compliance:	Action off,	Action as per point 1.1 through 1.3 prior to the next off. All further action before December 31, 1988, at the latest	1.3 prior to the next take- 1, 1988, at the latest.
lechle für den Foll der Palersleckeining suchsmuster-Eintragung vorbeholten.	Reason:	1. With flish An An of he structure the fundamental learning to the learning the learning the structure that the structure the structure the structure that the structure the structure that the structure	h an ASW:15 B in Austria t inspection of the wing sho water a mould fungus develo roying the wood. This mou royed the balsa wood spar we spar respectively to such action of the spar webs was ading eventually to the prem	he left wing broke off in ped with his chute.  wed that following penetration pped in the spar inside delighted in the spar inside delighted and delighted and the plywood blocks of an extent that the supporting no longer sufficient, this atture failure of the wing.
nicht seiz Ale F nden oder Gebro	;	2. At 1 all and by we	the instance of other ASV 15s region a further four underdestroying mon	the Austrian Civil Aviation Authority istered in Austria had to be inspected sits were found which had been attacked ald fungi.
und Hitlehung ihres fisholis word gusdrücklich zugesto		3. In spo	In section 2.5 "Upkeep and Haintenance" of the Flight Operations Hanual of the ASV 15 (p. 18) and ASV 15 B (p + 23) it is strongly emphasized that moisture and water spectively can have a damaging effect on the structural openents of the glider and how — if there is suspicion of ponents of the glider and how — if there suspicion of the poisture or water — the components have to	enance" of the Flight and (p. 18) and ASW 15 B (p. 22 that moisture and water reffect on the structural comfiet there is suspicion of pethe components have to be
e, Verwertung stattet, sawed				not been regarded strong-
ing V*	Action:	1.1 The	wing spar must sture, mould fungi a	be visually inspected for penetrated ind/or swelling up !

Through this opening the spar inside has to be inspected using a suitable mirror with suitable lighting mechanism.

1.3 If there are no swelling-ups or indications at the latest. der "Action, point 2.1" - must follow by December 31, 1988 wing spar - in accordance with the instructions given unued for the present. However, a further inspection of tions under point 2.2. The flight operations can be continof # 28 mm is re-sealed in accordance with cloth covered with 2 layers gassfiber cloth 92125 (or a similar moisture, of approx. 250 q/m2) of about 30 mm #. The opening the hole has to be preserved with resin and then of penetrated instructhe

Note: The above points 1.2 thru 1.3 are unnecessary if the actions in accordance with points 2.1 and the following are carried out immediately. the actions in accordance with points 2.1

- 1.4 Hovever if the inspection in accordance with point 1.2 with "Action, point 2.1" - must follow immediately. longer and in any case a further inspection in accordance water, it is not permissible to du shows that there is moisture, mould fungi and/or the wood or if there is suspicion of penetrated to operate the glider swelling yns
- 2.1 As shown in Fig. 3, the wing spar inside must be keyhole saw of \$28 mm (see Fig. 4), must be sent in for examination to one of the institutes listed under "Notes, point 2."; they must be marked so that they can be assign-With ASW 15 gliders up to the serial no. 15183 you have to box, the lo ance with Fig. 1 (this opening already exists gliders with serial no.s above 15183). first drill an opening into the front root rib in accorddrill (move the source of light along the spar inside). and for wood-destroying mould fungi; the endoscope with two stiff, approx. I m long wires) for discoloration lighting mechanism, e.g. pocket-lamp bulbs ed, using an endoscope (or a suitable mirror with suitable In order to drill the inspection holes into the airbrakes inserted through the inspection holes which you have to the lower airbrakes have to be disassembled first. cores of the bores which you have to do with a soldered 9 has 11. ő on
- 2.2 If If it is found that the wood parts of the spar inside are not damaged by moisture and/or mould fungi, then the drilled bore holes must be reinforced by which er (see Fig. 6). Prior to this, the spar inside must be must be preserved again (see Fig. It has to be regarded that the edges REMMERS, D-4573 Löningen, Tel. $\updownarrow$  05432-83-0 (see Fig. 5). When using this product "Aidol" you will need about 200 g. cordance with DIN 68 800, e.g. Aidol Fertigbau 100 made by sprayed out with a solvent-containing preservative lar disk and then closed again by means of a rubber stopp-The the drill bore hole in ac-

ed again afterwards to the corresponding bore.

1:2 For this job you have to drill a hole through the opening

for the waterballast, using a drill of

thickness

about 200 mm length (diameter according to the

H

the.

1001

al no. 15183 there is no opening

therefore, must

first be drilled in this location

endoscope the

available,

H.

front

root

inserted

which,

you can alternatively drill an opening of ≠ 28 mm

(see Fig. 1). If you do not have an

of the spar inside can be done, has to be inserted into this hole (see Fig. 2). With ASW 15 gliders up to the seri-

the endoscope). The endoscope with which the inspection

blue, brown or grey hues or as white mold fungi in lumpy shape or in cobweb-shaped, but irregular threads.

hould fundi attack shows as discoloration of the wood

into

Notes:

D-2050 Hamburg 80 Leuschnerstr. 91

Institut für Holzbiologie und Holzschutz

Bundesforschungsanstalt für Forst- und Holzwirtschaft

D-4600 Dortmund 41

Marsbruchstr. 186 Abt. Chemie

Staatl. Materialprüfungsamt Nordrhein Westfalen

D-1000 Berlin 45

Unter den Eichen 87

Biologische Materialprüfung

Bundesamt für Materialforschung und Prüfung

Addresses of the institutes:

ments and in the log-book.

censed aviation inspector in the glider's inspection The accomplishment of this mod must be certified by a li-

docu-

Material & drawings: SHEET: The GRP-circular disks, the rubber stopper, the Manual pages and the wood preservative are available from the manufacturer. 4. If discoloration of the balsa wood webs and plywood blocks If a swelling . In the Operations Manual the p. 22A (ASW 15) and p.27A respectively (ASW 15 B) must be exchanged for pages with the same number and the reference entry "TN No. 23 dated 21.04.1988". The exchange of the pages in the Manual must be documented on the page 3 "Amondments to the Manuals". respectively is found or wood-destroying mould fungi attack is found, the manufacturer must be contacted for repair instructions and for either an accomplishment of a repair or If a swelling up is clearly visible or if there is suspicion that water has penetrated into the spar fork or into the spar stub, the main pin bushings must be removed and the interior between the bushings must be inspected (see replacement of the whole component. winding or lie slightly back respectively. Normally the main pin bushings are level with the main spar inside the GRP-circular disk is intended as gate for later inspections and the holes in the rubber stopper are necessary for ventilation. ASW 15 Technical Note No. 23 Alexander Schleicher 6416 Poppenhausen Segelflugzeugbau

the manufacturer or by a technical aviation service station holding an appropriate license.
"Action point 5." can be carried out by the owner himself.

"Action points 1.1 thru 4." must only be carried out by

ASW 15 Technical Note No. 23

SHEET:

Institut für Holzforschung und Holztechnik der

D-8000 München 40 Winsererstr 45 Universität München

D-4150 Krefeld 11 Forschungs- und Entwicklungszentrum Desowag Materialschutz GmbH Schwengersstr. 10

D-3300 Braunschweig Tel.: 0531 / 3909-336 Blenroder Weg 54 E Fraunhofer-Institut für Holzforschung

Poppenhausen, April 21, 1988

ALEXANDER SCHLEICHER and retailed CEDE & Co.

is controlling. The German original of this Technical Note has been approved by the LBA under the date of Aril 26, 1988 (signature: SCHMALJOHANN). The translation into English has been done by best-knowledge and judgement; in any case of doubt the German original

(Gerhard Waibel)

Alexander Schleicher 6416 Poppenhausen Segelllugzeugbau

Nur gültig für ASW 15 bis Werk-Nr. 15 183 !

35 14 in. 85 mm 33 in. 55 mm 22 in.

Only required for ASW 15s up to the serial no. 15183 !

Benennung

Hr.

Werkstoff

Bemerkung

Bearb. 08.04.88

Name

ASW 15

Offnung in Wurzel – rippe Hole in root rib

Zust

nderung

Datum Na. Urspr.

Ev.

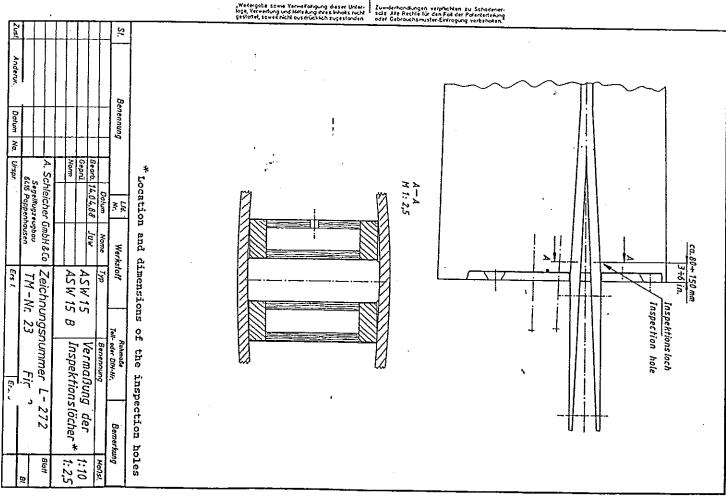
TM -Nr. 23

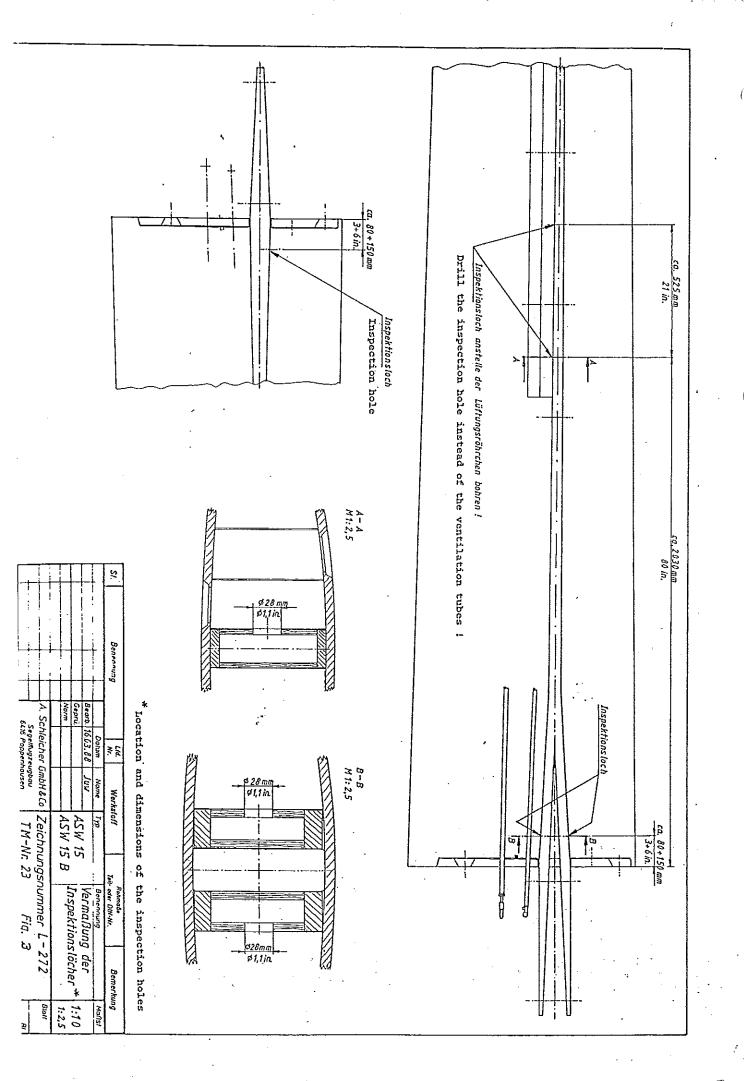
Fig. 1 E/2. 4

A. Schleicher GmbH&Co

Zeichnungsnummer L-272

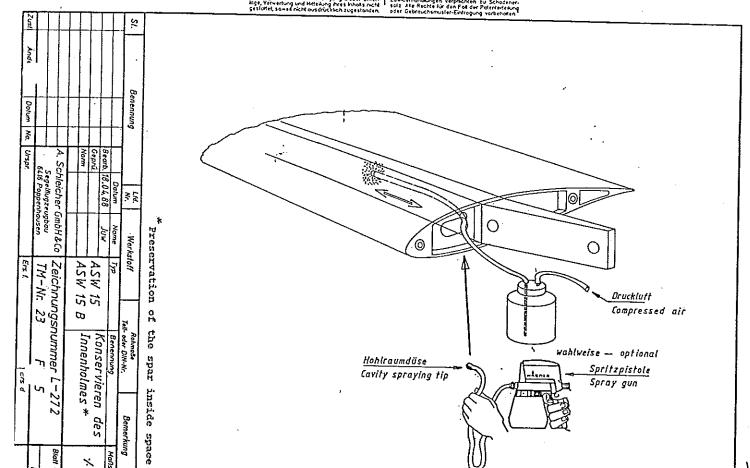
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Anderving · Datum A	Ţ.				Henenama	Spiralböhrer Ø8	ı	Innenvierkant 1/4, in.	(1) Twist d. (2) Keyhole (3) Female	
<u>₹</u>	Ц.	H		_			ı		drill e saw	
Urspr.	A. Schleicher GmbH&Co Segelllugzeugbau	Norm	Bearb. Geprü		-				square	25 1in.
6	Sege		12	<u></u>			1			-19-19-19 -13-1/e in.
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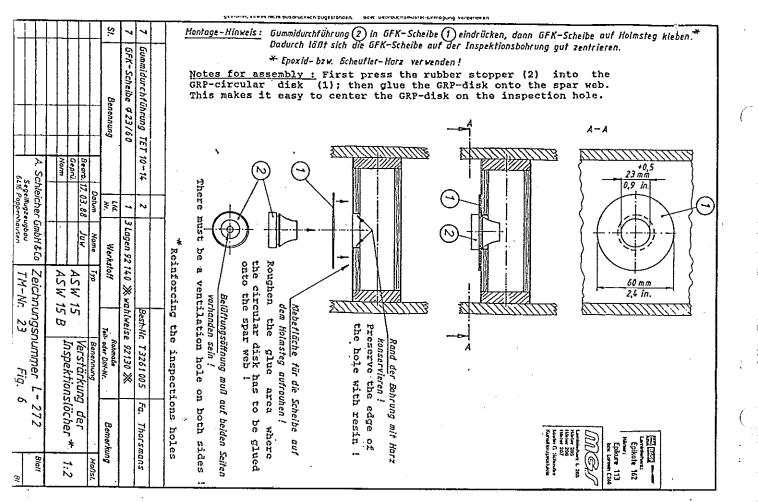
<u>Hohlraumdüse</u>

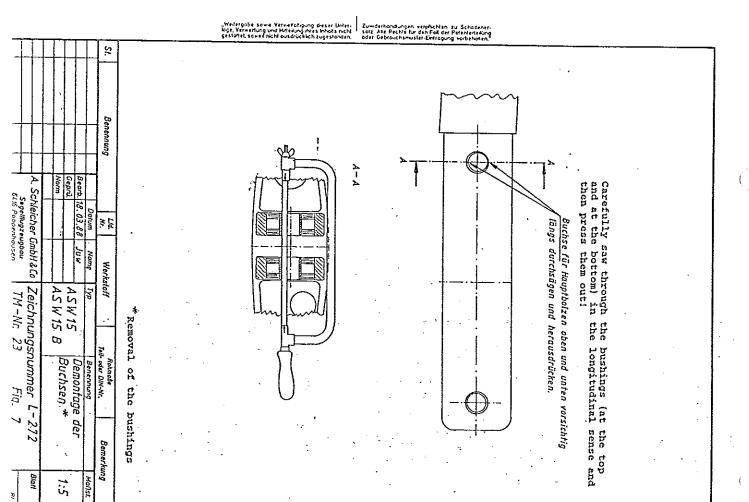
Cavity spraying tip

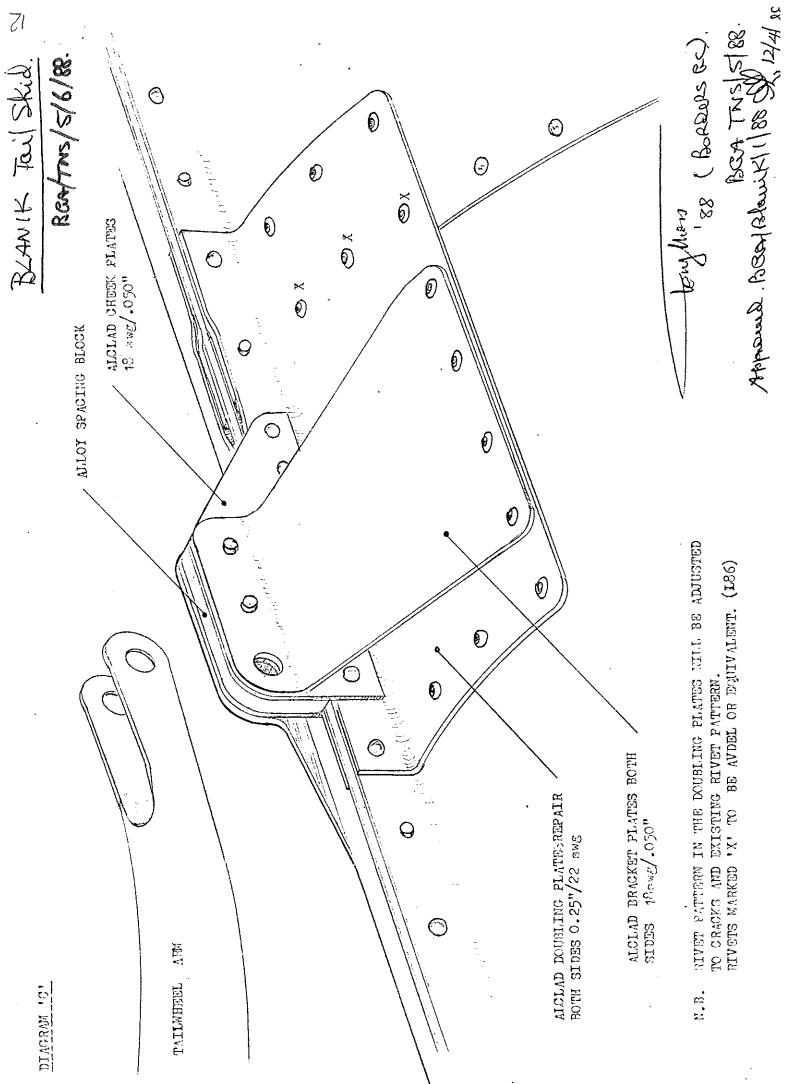
Konservieren des Innenholmes \*

wahlweise - optional

Spritzpistole Spray gun







BLANK SKID MERUTIUG KORON'R

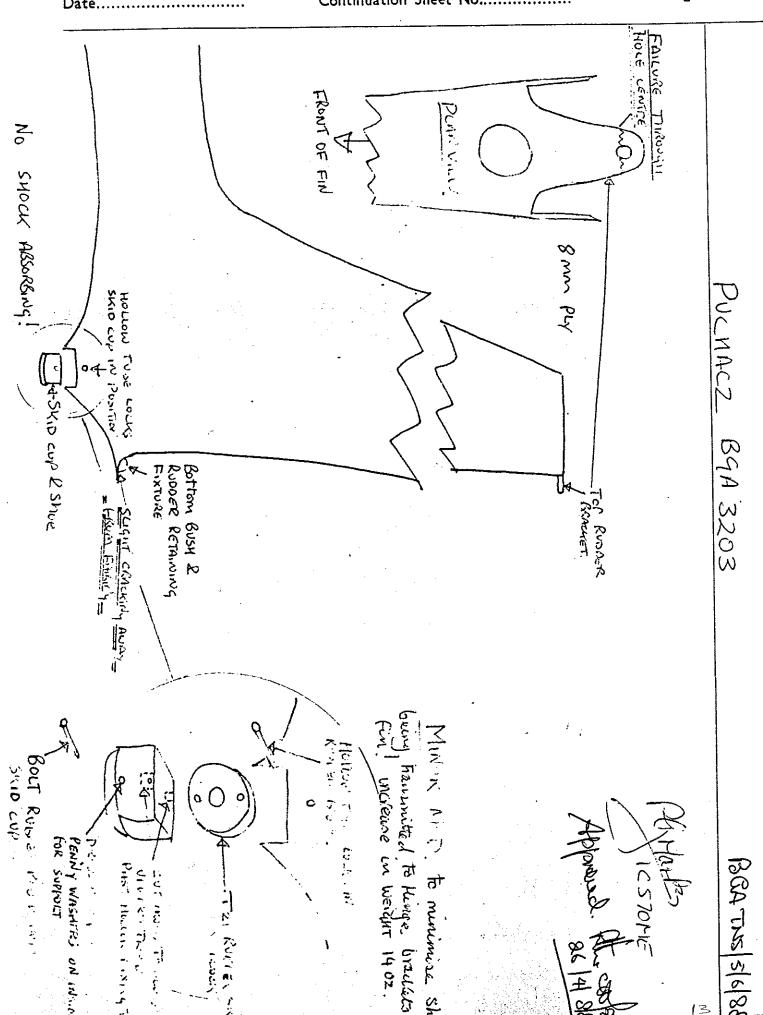
SITE REPORT

No. B/C

General Technical Query

Continuation Sheet No.... Date..

Shortage



RASS SECTION OF VENTUS

ELEVATOR

OF ELEVATICE HORN

Crack zone

ower Skin

pressure from elevater horn Caused by down ward

DANAGED WHILST RIGGING

VENTUS

3/5/88

Clevelande C.C

# SCHEMPP-HIRTH JANUS CM SERIES MOTOR GLIDER

		CAA AD No
86-135	85-164	Associated Material
<pre>Fuel supply system - improvement. Maintenance Manual - replacement pages.</pre>	Propeller mounting - Failure of one strut in propeller mounting structure.	Description PART 1 - LUFTFAHRT-BUNDESAMT AIRWORTHINESS
Applicable to Janus CM all Serial Nos. Compliance required as detailed in AD. Schempp-Hirth Technical Note No 809-3	Applicable to Janus CM Serial Nos 2 to 6, 8 to 15 and 18. Compliance required as detailed in AD. Schempp-Hirth Technical Note No 809-1 also refers.	Applicability - Compliance - Requirement S DIRECTIVES

Issue 5 March 1988

# HOFFMANN PROPELLERS

Applicability - Compliance - Requirement	S DIRECTIVES	Applicable to variable pitch propeller HO-V62 R/L 160T fitted to Limbach L 2000 engines. Compliance required as detailed in AD. Hoffmann Service Bulletin No. 4C also refers.	Applicable to constant speed propeller HO-V 123 ()-()/180R. Compliance required as detailed in AD. Hoffmann Service Bulletin No 6, EB No I-EC2 also refer.
Description	PART 1 - LUFTFAHRT-BUNDESAMT AIRWORTHINESS DIRECTIVES	Calibration of Tachometer and inspection of propeller blades. Introduction of improved blade root retention.	Inspection for cracks in the coating on the suction side near the blade shaft.
Associated Material		83-150/4	88-20
CAA AD No.			

# E2. UNSUITABLE SPARK PLUGS FITTED

Britten Norman BN2A Trislander

Date February 1988

SPARK 12URS

During cruise conditions, the left hand engine commenced surging + or - 200 rpm. The engine was shut down as a precaution and the aircraft landed safely.

Engineering investigation, revealed that the left-hand engine which had only recently been installed on the aircraft, although the spark plugs that were fitted had been installed some time ago. In April 1986 Lycoming Service Instruction 10420 was revised to the R Issue. This stated that SR88 spark plugs were no longer suitable for 0-540-E4C5 engines. The plugs on this engine had been overlooked. A fleet check was carried out to ensure that all SR88 plugs are removed from service.

### 9. ENGINE RAN WITH BOTH MAGNETOS SWITCHED OFF

GASK 4/88

Aircraft DHC1 Chipmunk Date December 1987

The pilot was carrying out a magneto dead-cut check after engine start up and he realised that there was no drop in engine rpm with No 1 magneto switched off. Further checks showed that the engine continued to run with both magnetos switched in the OFF position. It was subsequently discovered that there was an open circuit magneto lead inside No 1 magneto cap.

### CAA Comment:

Some ten years ago, your author was hand turning the propeller of a Chipmunk to prime the engine prior to start up. Despite being certain that the magneto switches in both the front and rear cockpits were in the OFF position, the engine started on turning the second compression. That incident convinced your author, as I hope that the above incident has convinced you, that you must:

# ALWAYS TREAT THE PROPELLER AS LIVE

Aircraft

Piper PA19 Super Cub

Date

Summer 1980

CONTROLS OBSTRucted.

The pilot and passenger were setting off for a short local flight when, unknown to the pilot, the passenger placed his camera in the map pocket on the back of the pilot's seat. With the front seat fully back and the camera in the pocket, the rear control column forward movement was restricted. This became apparent to the pilot immediately after take-off as the nose tried to rise. The only way the pilot could get the nose down again was by throttling back.

Fortunately he realised what had happened and called to the passenger to remove whatever was in the pocket, which he did promptly.

The pilot said that he has subsequently cut the map pocket off the rear of the pilot's seat.

### CAA Comment:

It is all too easy for non-flying passengers to think that they are being helpful by stowing away loose articles without realising the potential dangers.

Whilst the removal of this pocket probably in no way effected the airworthiness and safety of the aircraft, all pilots/owners should take advice from their engineers before any action more significant than this is taken in the future.

Normally, a control full-and-free check would have detected the presence of such a restriction but it cannot be determined at what point the passenger stowed the camera. See GASIL 1/88 Item 3, "Full-and-Free Control checks".

### **SUB-SECTION A5**

### **EXPLANATORY NOTE TO CHAPTER A5-3**

Revised, 1st September, 1985

### **DUPLICATE INSPECTIONS**

- For many years this Chapter has required duplicate inspections on control systems and units of control systems the failure of which could affect the safety of the aircraft. The CAA has now decided to revise these procedures for the following reasons:—
  - (a) To widen the applicability of duplicate inspection to cover all parts of the aircraft (not only control systems) where malassembly of a single feature could lead to catastrophe, i.e. result in the loss of the aircraft and/or in fatalities (for further explanation see A5-3, 2).
  - (b) To relieve the applicability of existing requirements so that they cover only those areas where malassembly of a single feature could lead to catastrophe.
  - (c) To recognise more clearly that the sole purpose of duplicate inspection is to cover initial assembly or disturbance and not to attempt to deal with failures.
- 2 Certain parts in an aircraft's structure or systems (including controls and control systems) which are vital to the safety of the aircraft, are not only designed to achieve the appropriate high integrity but are also dependent upon specified maintenance actions to safeguard their integrity throughout the life of the aircraft. For such parts normal inspection procedures and techniques may not provide verification with a sufficiently high degree of confidence, and it will be necessary for two independent (duplicate) inspections to be carried out after initial assembly, or re-assembly following disconnection or adjustment.



- 3 For certain aircraft this Chapter will in future require duplicate inspection of vital points (features the single malassembly of which could lead to catastrophe).
- For such aircraft the CAA will, in future, require that vital points shall be identified and listed in the maintenance documents.
- The identification and listing o. vital points will not be required to be made retrospectively for existing aircraft so that alternative standards will need to exist for some time. However, for aircraft for which no listing of vital points was carried out at Type Certification the CAA is prepared to accept such a listing carried out by, or in consultation with, a competent design organisation.

HIS REQUIREMENT HAS BEENT INCORPORATED IN THE BRA'S TECHNICIAL PROCEDURE HANNAL



# AIRWORTHINESS DIRECTIVE

GFA AD 335

Issue 1

BGA/THS/5/6/88.

TYPES AFFECTED:

LS 1 - All series

LS 3 - All series

LS 4 - All series

SUBJECT:

Loss of attachment between the 4 wing root rib pins and the wing root ribs. (Inspection/rectification)
Inspection for wing root rib pin wear.

BACKGROUND:

One case of an Australian LS1 found to have cracking and loosening of the attaching material between the wing root ribs and the 4 wing to fuselage pins.

This problem is known in Europe, the manufacturer having produced a repair method which was considered at best a temporary fix.

The original 4 pins are low grade steel and show early signs of wear at the point of contact with the fuselage bearings. This AD can be followed as a method of pin replacement when pin wear is considered excessive.

Factors causing the pin/rib attachment breakdown are not clear, but wing looseness due to pin wear combined with rough airfield surfaces, unsprung wing walking wheels, etc are all contributory.

### ACTION REQUIRED:

### (1) Within 25 hours flight time

(a) Use an inspection mirror, through existing wing root rib holes to check the back of the pin mounting area (see Figure 1). Check the pin for movement (watch the back of the pin with the mirror at the same time).

If movement/cracking is found the glider must be taken out of service and the wing root pins removed and remounted in accordance with GFA Mod 88/2. The fuselage bearings are to be also inspected for any signs of damage or looseness.

(b) Wing tip freeplay check

Excessive wing tip fore/aft freeplay may contribute to wing root rib pin wear. The wingtip maximum allowable total freeplay fore/aft is 40mm. Freeplay can be reduced by gluing shim washers to the flange of the wing root rib pins. (40mm on 15m span). (Some models are adjustable)

NOT ARA

(2) Each Form 2 Inspection

Action (1) is to be carried out at each Form 2 inspection increspective of whether or not the pin installations are modified to GFA Mod 88/2.

Issued by: A Bun

Chief Technical Officer, Airworthiness 24.2.1988

For and on behalf of:

GLIDING FEDERATION OF AUSTRALIA

Sheet 1 of .3

(3) Wing root rib pins and bearings wear limits (Form 2 inspection)

The manufacturer does not state any wear limits for the pins or the fuselage mounted bearings.

This A.D. sets the following limits:-

- (a) Maximum pin groove depth .250mm
- (b) Maximum out of round of fuselage bearing .150mm

When these limits are exceeded new pins, either factory supplied, or manufactured to GFA Mod 88/2 must be fitted.

Oval fuselage bearings may be either replaced or machined back to round, in which case the new pins must be manufactured oversize (Ref Mod 88/2).

### IMPLEMENTATION:

Actions 1, 2 and 9

NOT AGA.

To be carried out by the holder of a DoTC 1109 Inspectors Certificate authorised "C. of A. FRP".

If pin replacement is required that must be carried out by the holder of a DoTC-1109 Inspectors Certificate, authorised "Major repair FRP".

WEIGHT AND BALANCE:

No appreciable change

DOCUMENTATION:

GFA Approved Modification 88/2 is available from the GFA Secretariat.

COMPLIANCE:

Not BEN

the requirements of this Airworthiness Directive are mandatory. This Directive is issued pursuant to Air Navigation Regulations under the delegated authority of the Secretary of the Department of Transport and Communications.

18 3 88