

THE GLIDING FEDERATION OF AUSTRALIA

GFA AD 418

(ISSUE 1)

GFA AIRWORTHINESS DIRECTIVE

TYPE AFFECTED: Nimbus 3, Nimbus 3/24.5, Nimbus 3D, Nimbus 3T, Nimbus 3DT and Nimbus 3DM

SUBJECT: Safety locking of L'Hotellier Couplings between the inner and outer wing panels.

BACKGROUND: On the Nimbus 3 series of gliders it is possible for the safety pin in the L'Hotellier couplings between the inner and outer wing panels to jam against the structure. It is therefore necessary to install a special safety pin in the connectors at the wing junction.

DOCUMENTATION: Schempp-Hirth combined Technical Notes which form part of this AD.

Type	Technical note
Nimbus 3 Nimbus 3/24.5	286-29
Nimbus 3D	373-6
Nimbus 3T	831-9
Nimbus 3DT Nimbus 3DM	847-5

ACTION REQUIRED:

1. Before next flight the special Schempp-Hirth safety clip must be installed on the L'Hotellier couplings at the junction between the inner and outer wing panels in accordance with the attached Appendix to the combined technical note.

Because the Schempp-Hirth safety clip cannot fall off the coupling it is highly recommended that they be fitted to all L'Hotellier couplings.

2. Flight Manual Amendments

For the Nimbus 3D, Nimbus 3DT and Nimbus 3DM pages 4.2.3, 4.2.4 and 4.2.5 must be inserted in the flight manual. These pages are available from the GFA Secretariat on request.

For the Nimbus 3, Nimbus 3/24.5 and Nimbus 3T a supplemental page (available from the GFA Secretariat on request) must be inserted as follows:

SIGNED:

[Signature]
CHIEF TECHNICAL OFFICER AIRWORTHINESS

For and on behalf of:

THE GLIDING FEDERATION
OF AUSTRALIA

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Model	Nimbus 3	Nimbus 3/24.5	Nimbus 3T
behind page	18	31	78

The supplemental page must also be entered in the record of revisions (amendment list) and in the list of effective pages. The entry must show the number of the respective Technical Note.

WEIGHT AND BALANCE: Not affected.

IMPLEMENTATION: Installation of the safety clip must be performed by a daily inspector any type.

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.

Schempp-Hirth Flugzeugbau GmbH Kriebitzstraße 25 - Postfach 1448 D-7312 Kirchheim unter Teck LBA-Nr. 185		RECOMMENDED ACTION 286 - 29 Page No. 1 373 - 6 TECHNICAL NOTE NO. 831 - 9 847 - 5 No. of Pages 2													
Subject : "L'Hotellier" ball and swivel joints															
Affected :															
<table border="1"> <thead> <tr> <th>Sailplanes</th> <th>ATC No.</th> <th>Ser.No. affected</th> </tr> </thead> <tbody> <tr> <td>Nimbus-3</td> <td>286</td> <td>All</td> </tr> <tr> <td>Nimbus-3/24.5</td> <td>286</td> <td>All</td> </tr> <tr> <td>Nimbus-3D</td> <td>373</td> <td>All</td> </tr> </tbody> </table>		Sailplanes	ATC No.	Ser.No. affected	Nimbus-3	286	All	Nimbus-3/24.5	286	All	Nimbus-3D	373	All		
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Nimbus-3DT	847	All													
Nimbus-3DM	847	All													
Urgency : See Airworthiness Directive (AD) No. 93-001 L'Hotellier															
Reason : On the above aircraft, the locking plate of the quick-connectors must be secured according to AD No. 93-001 L'Hotellier. On certain aircraft, however, the space may not be sufficient to secure the couplings connecting the control rods of inboard and outboard wing panels with the standard safety pin. Such couplings must then be secured with the aid of a special Schempp-Hirth safety clip (which cannot be lost) to prevent a jamming of the controls. It is further recommended to use this safety clip also for the fuselage-to-wing connections (instead of the standard safety pin).															
Actions :															
1. a) Attachment of the Schempp-Hirth safety clip to couplings connecting the control rods of inboard and outboard wing panels as per the attached working instructions.															
b) Recommended attachment of the Schempp-Hirth safety clip to couplings connecting the control rods of the fuselage to those of the inboard wing panels.															

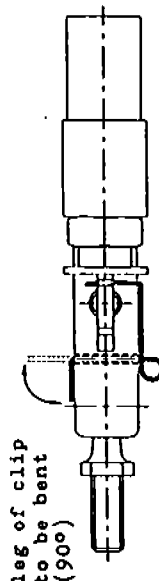
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P E N D I X
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Retrofitting Schempp-Hirth safety clips to "L'Hotellier"
ball and swivel joints

1. Direction of attachment and actuation of the safety clip on "L'Hotellier" control rod couplings:
Locking slide vertical : Clip to be held from the rear
Locking slide horizontal: Clip to be held from above
2. Note that there are clips for the port and for the starboard side.
Slide long leg of safety clip through the hollow roller pin of the swivel joint until its loop contacts the latter; then bend protruding end as shown in the sketch (90°).



3. If necessary, rebend safety clip such that its position complies with the sketch showing the secured locking slide.

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Actions (ctd.) : 2. Amendments of the Flight Manual
Date of issue for amended pages is March 1993

a)	Model	Nimbus-3D	-3DT	-3DM
	Page	4.2.3		
	Page	4.2.4	Rigging	
	Page	4.2.5		

- b) For models Nimbus-3
Nimbus-3/24.5 and
Nimbus-3T

a supplemental page to the Flight Manual is to be incorporated as follows:

Model	Nimbus-3	3/24.5	-3T
behind page	18	31	78

The supplemental page must also be entered in the record of revisions (amendment list) and in the list of effective pages. The entry must show the number of the respective Technical Note.

Weight/
C/G position : No alteration

Material : Safety clips for "L'Hotellier" ball and swivel joints as per drawing No. M07 RB 840 may be obtained from the manufacturer. There are clips for the port and for the starboard side.

Note : THIS TECHNICAL NOTE SUPPLEMENTS AIRWORTHINESS DIRECTIVE NO. 93-001 L'HOTELLIER.

Kirchheim/Teck, March 26, 1993

LBA-approved:

The German original of this Technical Note has been approved by the LBA under the date of April 6, 1993, and is signed by Mr. Schäfer.
The translation into English has been done by best knowledge and judgement. In any case of doubt the German original is authoritative.

Issued: H. Treiber
(H. Treiber)