



AIRWORTHINESS ADVICE NOTICE

TYPE AFFECTED: ASW 15 and ASW 15B.

SUBJECT: Miscellaneous airworthiness information.

BACKGROUND: This AN records airworthiness information which is useful to know.

APPROVED MODIFICATIONS:

Copies of Technical Notes may be obtained from the GFA Secretariat.

Item 1. Installation of a nose hook. Alexander Schleicher Technical Notes ASW 15 No 5 and 5a describe the optional installation of a nose hook. If a nose hook is installed then advantage should be taken of the improved installation possible under Technical Note 13a.

Item 2. New rudder pedals and improved access to the nose hook. Alexander Schleicher Technical Note ASW 15 No 13a describes the optional installation of new rudder pedals and improved access to the nose hook.

Item 3. Improved belly hook access. Alexander Schleicher Technical Note ASW 15 No 13b describes a modification to the belly hook fittings which improve access.

Item 4. Modified rudder lower hinge. Alexander Schleicher Technical Note ASW 15 No 13c describes the optional modification to the rudder lower hinge which provides adjustable stops.

Item 5. Installation of the all flying tail mounting pin on the fin. Alexander Schleicher Technical Note ASW 15 No 14 describes the optional modification of the all flying tailplane mounting pins onto the fin so that replacement of worn pins is easier. This modification is standard on all ASW 15 gliders with a serial number higher than 15382.

SIGNED:

CHIEF TECHNICAL OFFICER AIRWORTHINESS

For and on behalf of:

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Item 6. Installation of a tail wheel. Alexander Schleicher Technical Note ASW 15 No 24 describes the optional installation of a tail wheel.

Item 7. Installation of Wendekind Safety Sleeves on L'Hotellier Couplings. Alexander Schleicher Technical Note ASW 15 No 25 describes the optional installation of Wendekind Safety Sleeves to secure the L'Hotellier couplings. If these sleeves are fitted they must be installed in accordance with the procedures in this Technical Note. This Technical Note forms part of this AN.

Item 8. Winglets. FBW Flugzeugbau Technical note 272-26 allows the optional installation of winglets. This TN is only available in German.

SHEET: 1 of 3	ASW 15 Technical Note No. 25	Alexänder Schleicher GmbH & Co. Segelflugzeugbau D - 6416 Poppenhausen
<u>Subject:</u> <u>Serial number applicability:</u> <u>Compliance:</u> <u>Reason:</u> <u>Action:</u>	Securing of L'HOTELLIER quick-release connectors (ball and swivel joints) as per Airworthiness Directive (AD) "93-001 L'HOTELLIER" of the German Civil Aviation Authority (LBA) dated March 3, 1993. ASW 15 and ASW 15B, Data Sheet No.L-272. All serial no.s. None; optional as replacement for the safety pin (spring clip similar to standard DIN 11 024) which was recommended by Schleicher until now. See also the AD 93-001. The securing of the L'HOTELLIER quick-release connectors by means of safety pins (spring clips) has always proved to be very reliable but in the case of some SCHLEICHER glider types it has been complicated to fit them. Several proposals to improve the situation have become known to us, and the solution developed by Dipl.Ing. Klaus Wedekind has demonstrated to be easy-to-operate and relatively easy to retrofit. According to the LBA the "Wedekind safety sleeve" provides the same security as the safety pins and has been LBA-approved under the date of May 18, 1993. L'HOTELLIER quick-release connector with thread adjusting head: The installation of the safety sleeve AS-V is done in accordance with the "Hints for retrofitting" of the general Technical Note "Wedekind-safety sleeve, LBA-approved under the date of May 18, 1993". However, the following additional notes must be strictly regarded: Up to serial no. 15356 the L'HOTELLIER quick-release connector in the aileron control circuit is rivetted into a steel push rod. As of serial no. 15357 Technical Note no.12 is applicable and the L'HOTELLIER quick-release connector is rivetted into a thread adjusting head. Prior to undoing the adjusting head its adjustment length must be measured in order to avoid having to re-adjust the control surfaces or flaps after the re-fitting of the heads! Contrary to the note to bore the blind rivets by means of a drill dia 3.5 mm we recommend instead to use a drill of dia 4.1 mm. In order to be able to fit the bushing (2) it may be necessary to file down any excess material at the outside diameter of the adjusting head (e.g. at the seams) to exactly the rod diameter of 16 mm. Adjusting head must again be protected from corrosion! It may also become necessary for the blind rivet head to ream the bushing (2) slightly at the side. If the thread of the adjusting head has been painted, it may become necessary to re-cut the thread with a screw die in order to be able to screw the M10 nut (8) - please check! - onto the thread of the adjusting head. After assembly the thread must be again protected from corrosion!	

SHEET:
3 of 3ASW 15
Technical Note
No. 25Alexander Schleicher
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and in case of
L'HOTELLIER quick-release connectors riveted into pushrod:

Designation	Part no.	Pieces
Bushing $\phi 20 \times 1,8, 6$ long	2	1
Compression spring I $\phi 17,5 \times 0,9, 17$ long	3	1
Bushing $\phi 20 \times 1,8, 7$ long	4	1
Safety sleeve AS-S	5	1
Spring pin DIN 1481 - 2x22	6	1
Blind rivet $\phi 4 \times 6,8$ DIN 7337 A	/	4

The material required for this mod can be ordered from Messrs. SCHLEICHER Tel. +49-(0)6658-890 or Fax +49-(0)6658-8940. The customers must state the glider type in question and its serial number.

Weight & Balance: Negligible.

Notes:

Before ordering a safety sleeve please check which aileron push rod has been installed in the wing (L'HOTELLIER quick-release connector rivetted into steel push rod or into thread adjusting head).

The green marking of the bushing (4) which is referred to on Sheet 2 of the Technical Note "Wedekind-safety sleeve" is not required.

After the assembly of the "Wedekind safety sleeves" the control surfaces must be checked for full deflection and free movement in the area of the safety-sleeves towards root rib openings, fittings etc.

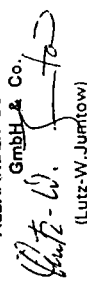
The Action under this mod can be done by a competent person. The accomplishment of this mod must be certified by a licensed aviation inspector in the glider's inspection documents and in the log-book.

Poppenhausen, January 4, 1994

ALEXANDER SCHLEICHER

GmbH & Co.

i.A.



(Lutz-W. Juntow)

The German original of this Technical Note has been approved by the LBA under the date of Jan.17, 1994 (signature: SCHMALJOHANN). The translation into English has been done by best knowledge and judgement; in any case of doubt the German original is controlling.

SHEET:
2 of 3ASW 15
Technical Note
No. 25Alexander Schleicher
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Further to the note given under point "Hints for retrofitting" on Sheet 3 of the "Wedekind safety sleeve" Technical Note the taping of the thread will not only serve for securing the M10 nut (8) but it serves also as protection to prevent a fouling of the adjusting head. Instead of using adhesive tape the nut may also be secured using torquelock Loctite 262 or 638.

L'HOTELLIER quick-release connector rivetted into the Dural push rod:

The installation of the safety sleeve AS-S is done in accordance with the hints for retrofitting contained in the General Technical Note "Wedekind-safety sleeve, LBA-approved under the date of May 18, 1993".

However, the following additional notes must be strictly regarded:

As of serial no. 15357 Technical Note no.12 is applicable and the L'HOTELLIER quick-release connector is rivetted into a thread adjusting head.

Contrary to the note to bore the blind rivets by means of a drill dia 3.5 mm we recommend instead to use a drill of dia 4.1 mm.

If it is very hard to pull the L'HOTELLIER quick-release connector (ball and swivel joint) off the push rod, it is recommended to use a suitable retaining tool for the push rod and for the L'HOTELLIER quick-release connector so that the Dural push rod dia. 16x1mm and the ball socket will not be damaged (e.g. use half-shells for clamping).

Measured from the flange of the L'HOTELLIER quick-release connector, the clearance up to the drill hole dia. 2mm for the spring pin (6) is 31 mm.
In order to drill the hole dia. 2 mm for the spring pin (6) into the bushing (4) and into the push rod, it is best to fix the bushing onto the push rod, e.g. by means of adhesive tape.

Material & drawings:

General Technical Note "Wedekind safety sleeve, LBA-approved under the date of May 18, 1993"; and
in case of
L'HOTELLIER quick-release connectors with thread adjusting head:

Designation	Part no.	Pieces
Bushing $\phi 20 \times 1,8, 6$ long	2	1
Compression spring I $\phi 17,5 \times 0,9, 17$ long	3	1
Safety sleeve AS-S	5	1
Spring pin DIN 1481 - 2x22	6	1
Washer $\phi 10,5/20 - 1,5$	7	1
Hexagonal nut M10 DIN 439	8	1
Blind rivet $\phi 4 \times 6,8$ DIN 7337 A	/	4