

Subject: Modification for optional operation with / without wingtip extension to 25.6m span including 0.35 m high winglets.

Serial number applicability: ASH 25, German Data Sheet no.364, as of serial no.25001 including any ASH 25 variant as per TN no.1 (preparation for engine retrofit). Optional mod only.

Compliance: None, optional mod.

Reason: In the recent past tests with relatively small winglets fitted (installed almost perpendicularly at the wingtip) have demonstrated comparatively high performance improvement. Therefore, also for the ASH 25 about 0.35 m high winglets were developed which improve the performance at low speeds and do not adversely affect the high speed performance. By this mod we met in addition the multiple customer request for span increase. The winglets generally improve also the flight characteristics (circling, stall behaviour and stalled flight).

- Action:
1. The action detailed in this TN shall be accomplished together with the action described in the previous TN 9 for the ASH 25. TN 9 describes the installation of a wing separation point at 12.2 m.
 2. Then in addition a pair of wingtip extension with winglets are built in accordance with drawing 250.51.S23 and layer scheme 250.51.S24.
Because of the required molds the building of these components must only be done by the manufacturer.
 3. The following manual pages must be exchanged for revised ones with date "March 94" and rev.no. "TN 11" :

Flight Manual: Page 0.2 thru 0.5 1.4 1.5 2.3 thru 2.5 2.7 2.9
2.10 4.2 4.4 4.7 4.8 4.14 4.15 5.4 8.4

For the Flight Manual ASH 25 as per TN 1 (preparation for engine retrofit) the manual pages with rev. entry TN 1/11 are applicable (0.3 0.4 0.5 1.5 4.7).

Maintenance Manual: Page 0.2 0.4 0.5 1.2 bis 1.4 2.12 2.35 3.3
5.2 6.2 6.3 7.4 8.3 9.4 12.5

For the Maintenance Manual ASH 25 as per TN 1 (preparation for engine retrofit) the manual pages with rev. entry TN 1/11 are applicable (0.2 0.4 0.5 5.2).

4. In addition a compensation mass (weight) of 2 kg must be fitted into the leading edge of the wingtip extensions for the ASH 25. This mass balance weight is fitted as described in drawing 250.51.0059.
5. ASI color marking must be changed according to Flight Manual page 2.5.

Material and drawings:

See under point "Action" of TN 9. Additionally, the following drawings -
250.51.S22
250.51.S23
250.51.S24
250.51.0059
were new made and filed into drawing list "Span 25.6 m with Winglet".

Mass and C.G.:

As there is a change in the empty mass C.G., it is necessary to redetermine the mass and C.G. data by weighing.


Notes:

1. For ordering the wingtip extension with winglets kit and pertinent assembly drawings owners may contact the manufacturer SCHLEICHER GmbH & Co, or the Schleicher agency in their country.
2. This retrofit mod to be accomplished by the manufacturer SCHLEICHER, or by an aircraft repair station holding the appropriate license.
The exchange of the pages in the Manuals can be done by the owner/operator of the glider himself.
The accomplishment of this mod must be checked by a licensed aviation inspector who must certify this in the glider's inspection documents, log-book, and the Flight and Maintenance Manuals (on the respective pages "Record of Revisions").

Poppenhausen, July 10, 1995

ALEXANDER SCHLEICHER
GmbH & Co.

by order


Dipl. Ing. M. Heide

The German original of this Technical Note has been approved by the LBA under the date of July 14, 1995 (signature: SKOV). The translation into English has been done by best knowledge and judgement; in any case of doubt the German original is controlling.