

AIRWORTHINESS ADVICE NOTICE

TYPE AFFECTED: Scheibe SF-25 Falke, C model only, serial numbers as defined in attached Service Bulletin.

SUBJECT: Aerotowing of gliders with above-mentioned C model Falkes.

BACKGROUND: German certification has been obtained for certain serial number ranges of C model Falkes (as defined in the factory bulletin) to be used for aerotowing.

APPROVED MODIFICATIONS:

The Scheibe factory has introduced LBA-approved Modifications 152 and 153 in combination with Modifications Nos 121,155,165 and 167 to permit certain serial numbers of the SF-25C model (only) of the Falke to carry out aerotowing of gliders.

DOCUMENTATION: Scheibe Service Bulletin No 653-71/3 forms part of this AN.

SIGNED:

For and on behalf of:

SENIOR TECHNICAL OFFICER AIRWORTHINESS

**THE GLIDING FEDERATION
OF AUSTRALIA**

Scheibe- Flugzeugbau GmbH August- Pfaltz- Str. 23 85221 Dachau LBA- approval I- EB 2	Service- Bulletin 653-71/ 3, Modifications 152 and 153 in combination with Mod. 121, 155, 165 and Mod. 167	SF 25C TCDS: 653 Page 1 of 2
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Subject: Aerotowing of Gliders and Motorgliders.

Affected: Motorglider of SCHEIBE Flugzeugbau GmbH of the following type:

SF 25 C:

1. only for serial- no. 44.111, 4356C, 44.160 and up together with
 modification 60 = 610 kg max. take off mass or
 modification 100 = 650 kg max. take off mass
 in conjunction with
 modification 121 [engine Rotax 912 A ()] and
 modification 155 [Constant-Speed Propeller MTV1A or MTV21A-C-F],
 2. serial- no. 44332, 44334 and up together with
 modification 100 = 650 kg max. take off mass
 in conjunction with
 modification 165 [engine ROTAX 912 S ()] and the propellers
 MT170R135-2A, MT175R130-2A,
 MTV1A/175-05 or MTV21A-C-F/(CF)175-05]
- approved for all versions of undercarriage
 (central wheel-, two wheel- or nose wheel undercarriage).

Urgency : None

Reason : On the supposition that the motorglider is equipped with

- a) engine ROTAX 912 A () [modif. 121] and the propellers
 MTV1A/175-05 or MTV21A-C-F/(CF)175-05 [modif. 155]
 - or
 - b) engine ROTAX 912 S () [modif. 165] and the propellers
 MT170R135-2A, MT175R130-2A,
 MTV1A/175-05 or MTV21A-C-F/(CF)175-05]
- the motorglider also can be operated under category „airwork“ for
 glidertowing, if the following actions have been performed.

- Actions:**
1. a) Application of a fixed towing device according to dwg. 653C-11-S44
 with TOST nose launching hook E85/ E75/ E72
 - b) Modification of the rudder according to dwg. 653C-33-S4.1 change b
 - c) Installation of the launching hook release mechanism (take care that a
 backlash with a minimum of 10 mm is given)
 - d) Optional installation of the tail wheel according to drawing
 653B-11-S7E4 (only for central wheel or two wheel undercarriage)
 - e) Attaching of two mirrors (one outside on L/H side of the canopy frame
 and one inside the canopy above the magnetic compass)
 - f) Determination of Weight and balance (by weighing or calculation) with
 an entry in the flight manual of the motorglider and renewal of the data
 label in the cockpit with an additional part on airwork: „glidertowing“.
 - g) Attaching of the necessary lables according the appendix „glidertowing“
to the flight manual dated 15.11.1999.
 - h) Operating instructions for motorglider for glidertowing:
*Supplement to motorglider flight manual SF 25 C only for
 Category Glidertowing dated 15.11.1999.*
 - i) Operation manual for the aerotow nose launching hook
 series TOST nose launching hook E 85/ E 75/ E 72 in the last valid
 edition.

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2. a) Application of a tow rope winch in connection with a tow rope cutting device of the manufacturer Fa. TOST- Fluggerätebau; installation according to dwg. 653C-11-S43 with outside cover.
- b) Modification of the rudder according to dwg. 653C-33-S4.1 change b
- c) Installation of the tow rope cutting mechanism (take care that a backlash with a minimum of 10 mm is given)
- d) Electrical wiring according to the wiring diagramm of Fa. TOST
- e) Optional installation of the tail wheel according to dwg. 653B-11-S7E4 (only for central wheel or two wheel undercarriage)
- f) Attaching of two mirrors (one outside on the L/H canopy frame and one inside the canopy above the magnetic compass)
- g) Determination of Weight and balance (by weighing or calculation) with an entry in the flight manual of the motorglider and renewal of the data label in the cockpit with an additional part on airwork: „glidertowing“.
- h) Attaching of the necessary lables according the appendix „glidertowing“ to the flight manual dated 15.11.1999.
- i) Operating instructions for motorglider for glidertowing:
Supplement to motorglider flight manual SF 25 C only for Category Glidertowing dated 15.11.1999.
- j) *Flight and operational instructions for the Tow rope winch and tow rope cutting device of Fa. TOST*

Weight and

Balance: Has to be checked at manufacturing inspection or at the modification.
(See point 1f und 2g of the above actions).

Remarks: The modification has to be performed only by the manufacturer
SCHEIBE Flugzeugbau GmbH or by
another aviation workshop, authorized by the manufacturer
SCHEIBE Flugzeugbau GmbH or
at an authorized and approved JAR 145 service station.
The modification has to be certified in the log book by an authorized inspector.

This service bulletin was originally written in German and approved by the German LBA.
It is signed by Mr. H. Jung. The translation has been accomplished to best of our knowledge and judgement.
In case of doubt, the German original is authoritative.

SCHEIBE Flugzeugbau GmbH
Dachau 12.01.2000
LBA I- EB 2

Musterprüfleitstelle

LBA- approved:

(Haferkorn)