

SUPPLEMENT B1

GLIDER TOWING VERSION

SECTION 1 - GENERAL

This Supplement must be attached to the approved Flight Manual when the aircraft, equipped with kit p/n SB_VA-03, is configured in glider towing version.

The information contained herein supplement the basic Flight Manual. For limitations, procedures and performance information not contained in this Supplement consult the basic Flight Manual. Wherever conflict arises between information reported herein and on the approved Flight Manual, the information in this Supplement must take precedence.

NOTES, CAUTIONS AND WARNINGS

In this Supplement the Note, Caution and Warning indications are supplied in accordance with these definitions:

NOTE *An operating procedure, technique or maintenance practice which is considered essential to emphasize.*

CAUTION An operating procedure, technique or maintenance practice which may result in a minor damage if not carefully followed.

WARNING **An operating procedure, technique or maintenance practice which may result in personal injury or loss of life if not carefully followed.**

SECTION 2 - OPERATING LIMITATIONS

For glider towing operations, the following operating limitations must be observed.

- | | |
|------------------------------|---------|
| (a) Maximum tow-plane weight | 900 kg |
| (b) Maximum glider weight | 500 kg |
| (c) Minimum tow-flight speed | 60 KIAS |
| (d) Flaps | 14° |

NOTE

Glider towing in severe turbulent air condition is prohibited.

SECTION 3 - EMERGENCY PROCEDURES

NO CHANGE.

SECTION 4 - NORMAL PROCEDURES

4.1 AICRAFT PREPARATION

The release mechanism must be checked in the following manner before the first tow-flight each day:

- 1 Attach the tow rope to the tow hook.
- 2 Pull the tow rope with a reasonable force and allow the pilot to activate the release.
- 3 Assuming the release operated correctly, reattach the rope.

NOTE

A towing device certified for aero-towing must be used on the glider.

4.2 PRE-FLIGHT CHECK LIST

For conducting tow-flight, the aircraft pre-flight check list must be extended with the additional tasks reported below.

COCKPIT

(k₁) AUX VIDEO page on Garmin CHECK

GLIDER TOWING SYSTEM

(a) Release lever NEUTRAL

(b) Tow hook system CHECK

(c) Tow rope FREE FROM KNOTS

(d) Tow rope CHECK FOR CONDITION

(e) Tow rope attaching items CHECK FOR CONDITION

(f) Quick Cam CHECK FOR CONDITION

(g) AUX video CHECK FOR OPERATION

GLIDER

(a) Glider pre-flight check list COMPLIED

4.3 BEFORE TAKE-OFF (Final Items)

Add the following step:

Glider pilot OK for start

OBTAIN via radio call

4.4 TAKE-OFF AND CLIMB

WARNING

Lift off the tow-plane after the glider has lifted off.

4.5 DESCENT AND LANDING

CAUTION

After tow-flight operation, prior to landing, the tow-rope should be safely dropped, and the successful release should be verified in live view on Garmin G500 and via radio call.

4.6 UNINTENTIONAL SEPARATION OF THE TOW-ROPE

If the connection to the glider separates unintentionally or if the glider pilot performs an emergency release, then the tow-plane pilot must continue his/her flight maintaining direction, airspeed and attitude. The glider must be observed in live view on Garmin G500, until it is certain that the glider will not be obstructed in its continuation of flight or landing and roll out.

SECTION 5 - PERFORMANCE

WARNING

For tow-flight operations, the tow-plane performance differ from the ones reported in the basic Aircraft Flight Manual as a function of glider's weight and performance.

SECTION 6 - WEIGHT AND BALANCE

Add in the "Optional Equipment" row of Figure 6-3 the following data relative to glider towing kit:

ITEM	WEIGHT	ARM	MOMENT
Kit SB_VA-03	4.813 kg	4.370 m	21.033 kg m

SECTION 7 - DESCRIPTION AND OPERATION

7.1 EXTERNAL VIDEO ON GARMIN G500

When in glider towing version, a quick cam is installed on the fuselage rear cone to provide the glider live view on Garmin G500 display.

To activate the external video, refer to the document “**Garmin G500 Pilot’s Guide**”.