

This release support is part of the LBA approved Tow Cable Retractor Winch with Guillotine, suitable for tugs of the type Champion Citabria 7GBC, 7GCBC, 8GCBC, TCDS (in Germany) no. 525 and 525a.

The box-type support is constructed from sheet steel, argon-arc welded, the surface is galvanized, delivery with spring pad.

Length of the support = 615 mm, for spring packs width 1,75 inch, mass 2600 g (with release, release lever and spring pad).

Safe operating load is 7,5 kN.

The support is constructed for the Tost release E 85, p/n 014100 (or predecessor types), weight 560 g, Type Certificate Data Sheet No. 60.230/1, delivery with EASA Form 1. For hinging the special actuating lever p/n 300320 is needed.

An operating cable in the form of a Bowden cable and a spring support is included in the shipset. The Bowden cable can simply be fixed to suitable points on the fuselage; it needs not be led over deflecting pulleys.

Operating cable length is 10 meters. One end of the cable is finished with an eyelet and an adjusting screw, while the other end is left unfinished. The thimble and sleeve are included separately, so the customer can adjust the length precisely by himself.

Installation instructions

Demount tail wheel and springs. Due to considerable variations in aircraft dimensions we did not prepare bore "X". Please place bore "X" at the support suitable for your tug. Now stick the tail skid through the support and fix the support and the springs using the delivered spring pad.

Before mounthing the Bowden cable, lubricate the inside of the Bowden spiral casing with MoS₂ (Liqui Moly or similar lubricant), using a pressure-feed oil gun. Force the lubricant through the whole spiral and then feed the Bowden cable through.

This lubrication is essential to avoid increased frictions. High friction could prevent the release from locking completely and could thus result in the release opening prematurely during towing.

The Bowden cable must have at least 5 mm "end play" (extra length), to ensure complete locking of the release. Premature automatic releasing under load can only occur if the release is incompletely locked (see hints in the E 85 Release Operating Manual).