

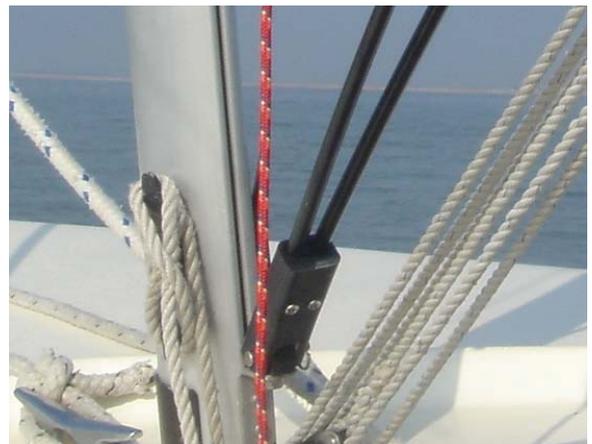
DINGHY BOOMSTRUT MODEL 44001 **INSTALLATION INSTRUCTIONS**

The Barton Dinghy Boomstrut is designed for sailboats under 5 metres (17') with boom and sail tip weight of under 6.8 kgs(16 lbs). We recommend, after reading the instructions fully, that you should install the complete system, then determine if the rods require cutting. This would mean the boom position may not be correct but will allow you to measure the downward force required (with sail flaked) on the aft end of the boom to flex the rods.

The Dinghy Boomstrut assembly



THANK YOU FOR CHOOSING THE BARTON DINGHY BOOMSTRUT. INSTALLATION IS A FAIRLY STRAIGHT FORWARD OPERATION AND CAN BE ACHIEVED IN A RELATIVELY SHORT TIME FOLLOWING THESE FITTING PROCEDURES:



RECOMMENDED INSTALLATION TOOLS:

Cross-headed Screwdriver, Fine Tooth Hacksaw, Ruler, Pencil

(Drill Bit 4.2 mm, M5 Coarse Tap) If S/S fixing bracket needs to be fixed directly into the Mast

SET UP BOOM HEIGHT:

Use the main halyard or support the boom above its highest operating position. This would usually be between 15cm (6") and 20cm (8") above the horizontal at the outboard end (see fig. 1). The web strap sits under the boom in front of the kicker attachment point. The minimum operable length is 66cm (26") pin to pin and the maximum weight it can support is approx. 8Kg (17lbs) measured at the end of the boom with the sail flaked.

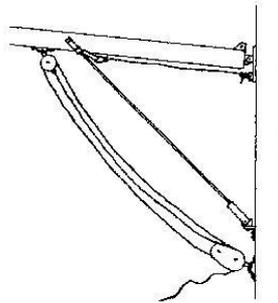


Fig no. 1

Boomstrut extended

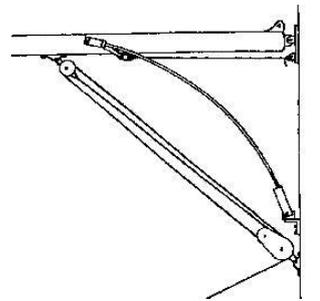


Fig no. 2

Boomstrut compressed

POSITION BOOMSTRUT:

The Boomstrut works by flexing upwards; when straight, it is at the top of its travel. Install the Boomstrut with the mast swivel bracket screw head side facing downwards and the webbing cradle eye facing forward. With the boom height set as above and the mast and boom web strap fitting attached to the Boomstrut, position it alongside the vang triangle to see how it fits.

Position is not critical so long as it does not interfere with the vang (kicking strap). It is recommended that both the vang and Boomstrut make an angle of between 30 and 40 degrees with the boom. The Boomstrut is designed to fit inside your current vang (kicking strap) tackle, but in some cases it may be necessary to reposition attachment points of these blocks to allow sufficient room. At this point mark the location for the mast fitting.

INSTALL MAST FITTING:

If the position of the gooseneck can be adjusted whilst sailing, mark the lowest point, then slide the Luff groove slide down the luff groove from the sail opening, this may require disassembling to allow the luff groove slide to slide behind a fixed gooseneck. This can be achieved by placing a screw driver into the luff groove below the gooseneck and sliding the slide until it sits on the screw driver then rotate the slide until the threaded hole is visible, now screw in one of the mast bracket screws, this will allow you to hold the slide in position until you fix the mast bracket back on to the slider.

When the slider and mast bracket is loosely in position slide the gooseneck to its lowest mark. Always use a barrier cream between the stainless steel fixing and the aluminium to prevent corrosion.

INSTALL WEBBING CRADLE

Ensure the web cradle eye and line are facing the mast.

INSTALL LUFF GROOVE EYE

Use the “install mast fitting” to install the luff groove eye and secure just below the lowest point of travel of the gooseneck or approx 5 cm below the fixed gooseneck.

SHORTEN RODS IF NECESSARY:

If the Boomstrut is too long, take the following steps to ascertain correct length and shorten rods. Loosen the rod clamps at the mast end and remove, this leaves the extra covering in the webbing strap intact. Mark both rods accurately then cut to length from the mast base end with a fine-toothed hacksaw. Refit the rods into the clamps ensuring that they are up against the stops to prevent slipping. Ensure that the unit is parallel and not twisted relative to each end, and then tighten clamps with the cross headed screwdriver. **IMPORTANT:** Do not shorten the total lengths of the rods by more than 130mm.

INSTALL BOOM FITTING:

Ensure that the rod clamps are tight at the mast end. With the Boomstrut in position, lift the boom 30cm above horizontal and tie off the webbing strap tensioner line tight to the gooseneck fitting (Fig no.1), you can introduce a cam cleat of your own for fine adjustment of the line, to control upward force and leech tension. Pull on the kicker to compress the rods and level the boom. When sailing, adjust the kicker to suit the sailing conditions in the normal manner.



FINAL CHECKS:

After installation, check the return force by pushing down on the end of the boom. Excessive return force will cause the boom to bow. For reference, with the sail flaked, only approx. 4.5kg (10lb) should be needed to pull the end of the boom down.



Should you have any questions with regard to installation of your Boomstrut please contact your Chandler in the first instance or contact info@bartonmarine.com