

Sailmaker Instructions

Consult specifications for swivel and drum pin-to-pin lengths to determine luff length deductions. If using optional hoistable halyard swivel, make sure to deduct for this.

Use a zippered luff sleeve or small snap straps so that the sail can be hoisted onto a permanent stay or removed with the headstay left in place. Make sure the head and tack thimbles are secured to the sail to handle furling loads.

Use tangs to provide a sail attachment to lower furler. A sailmaker eye may also be used.



Commissioning

Attaching furling components to mast and boat

Attach the tang assembly to fork at top of drum using ¼" clevis pin. Attach drum assembly to boat's chainplate using ¼" clevis pin.

As part of raising mast, attach upper halyard swivel to a tang on mast. Attach headstay wire with hoistable swivel to upper swivel assembly. Attach fork fitting on lower end of wire to tack adapter tang. Use "O" rings between tang and inside fork so clevis pin stays square to plate.

Furling Line Lead and Cleat

Feed line through one of openings in drum so it does not rub and through small hole in top of drum. Tie a tight figure "8" knot in end of line and draw it tight onto drum.

Spin drum and wind up about 10' (3 m) of line. Furling line can be led down center on either side of boat. Mount a 237 bullseye or 349, 29 mm Carbo block assembly placed so that furling line is perpendicular to forestay. Lead line aft and mount a 238 cam cleat with fairlead. Tie a figure "8" knot in end of line. Charge system by rotating furler spool to wrap line on drum. Tension line while charging. If you are using a sun-cover note which side of sail is exposed.

Tip: Sun cover to starboard—turn clockwise to charge. Sun cover to port—turn counter-clockwise.

If you need to change direction sail furls, disconnect tack of sail. Pull line off spool and charge line in other direction.

Raising Sail

Make sure that spool is charged with line as directed above. Attach tack of sail to adapter tang or sailmaker eye. Attach head of sail to shackle on halyard swivel. Attach halyard to upper shackle. Hoist sail and trial furling. Check furling line length. To change amount of line on drum, disconnect tack from lower unit and rotate drum to add or remove line. Re-attach tack.

Check Halyard Angle

Make sure halyard has a slight pull to the rear. The lower pin in the upper swivel spins. If halyard is too close to this pin, halyard can wrap causing sail to jam. There may be room to add a pendant between head of sail and hoistable swivel to raise it. Alternatively it may be necessary to put a halyard restrainer on the mast or lower halyard sheave. Use a modified 2129 eyestraps.

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HARKEN[®] SMALL BOAT FURLER KIT Installation Manual

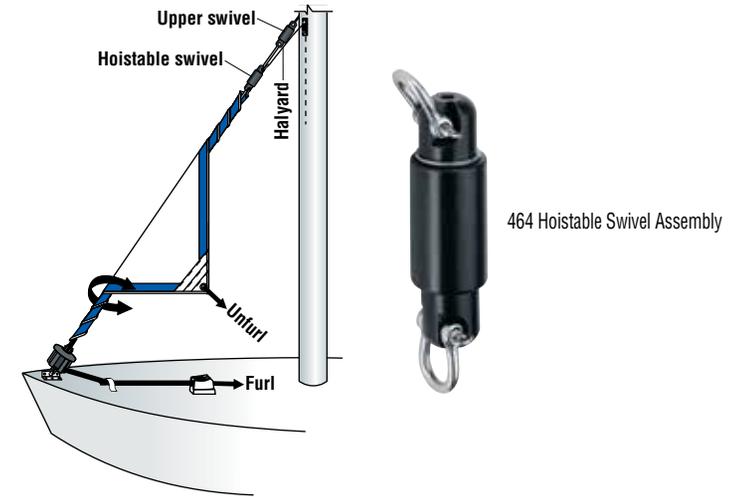
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WARNING! Strictly follow all instructions to avoid an accident, damage to your vessel, personal injury, or death. See www.harken.com for additional safety information.



Adapter Tang Assembly



Specifications

Part No.	Maximum working load		Max luff wire Ø		Jaw width		Clevis pin Ø	
	lb	kg	in	mm	in	mm	in	mm
483	950	431	5/32	4	5/16	8	1/4	6

Pin to Pin Lengths

Use for determining sail luff length.

Part No.	Description	Length	
		in	mm
164	Swivel Assembly	2.5	64
464	Hoistable Swivel Assembly	5.696	145
HCP649	Tack Adapter Tang	.75	19
165	Drum Assembly	2.5	64



Line (Not Included)

Line Ø	Measure distance from furler to cleat and add
5/32" (4 mm)	10' (3 m)

How It Works

The hoistable ball bearing swivel is installed on headstay so you can raise or lower sail without removing headstay. The hoistable swivel is independent of the headstay, allowing you to tension the luff separately from the mast rake. The adapter tang assembly provides a "Y" attachment to connect both stay and sail tack to the lower unit.

Assembly Checklist

Furling Attachment to Boat

Check mast fitting to make sure there is a tang to fit the clevis pin and jaw width of the upper halyard swivel. Check the chainplate to make sure the drum assembly will fit.

Rigging work

Make sure you have a stay made up with the correct hardware and with swivel correctly captured on stay. Consult Sailmaker to make sure sail is compatible with hardware. See below.

- Have fairleads or block and cleat to secure line.
- Purchase furling line per specifications above.
- Check halyard clearance of upper swivel.

Preassembly

Headstay Wire

Consult the pin-to-pin-lengths for the upper swivel, adapter tang and the drum assembly. Make up wire so that it has an 1/4" eye to mate with the upper swivel assembly. The lower end requires a fork to mate with the HCP649 Tack Adapter Tang. A sailmaker eye may be used as an alternative. The eye consists of a swage marine eye with a hole designed for lashing or shackling the tack to the terminal. Sailmaker eyes are available from rigging supply companies.



Important! Make sure to have the hoistable halyard swivel installed on the wire before ends are swaged in place. Make sure the top side of the halyard swivel with circlip ring facing is towards the top as shown.