

Luff Length

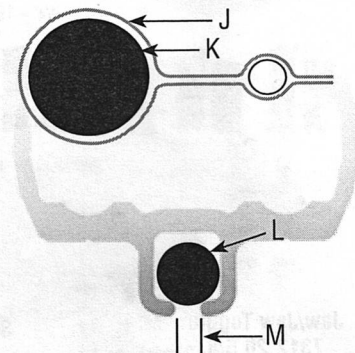
Note offsets above and below sail.
 A shorter luff may be required if a halyard restrainer is necessary (page 24) or a toggle or long toggle assembly is used to raise drum.
 If luff of sail is not long enough to put halyard swivel near top of headstay foil, a pendant must be added (see page 24).

Tack Setback

Note setback for tack shackle and cut the sail accordingly. Min is for eye/jaw and jaw/jaw toggles. Max is for stud/jaw toggles. See long link plate note.

Luff Tape Size -6 (5 mm or 6/32")

- J - Finished luff tape size: 5.5 mm (0.215")
- K - Luff rope size: 4.8 mm (6/32", 3/16")
- L - Max Ø in sail groove: 6.5 mm (0.26")
- M - Gap in sail groove: 2.4 mm (0.096")



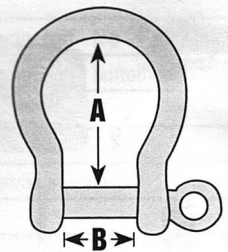
Luff Tape Length

Note feeder height and extend bottom of luff tape downward so it is below feeder. This will prevent luff tape from catching in feeder as sail is lowered.

Tack and Head Shackles

Make sure tack and head shackles fit sail rings. Minimum inside dimensions of standard head and tack shackles are:

- (A) 1 1/2" (38 mm)
- (B) 3/4" (18 mm)



Sun cover

Sun covers may be installed on either side of the sail. Be sure to match other sails in the customer's inventory.

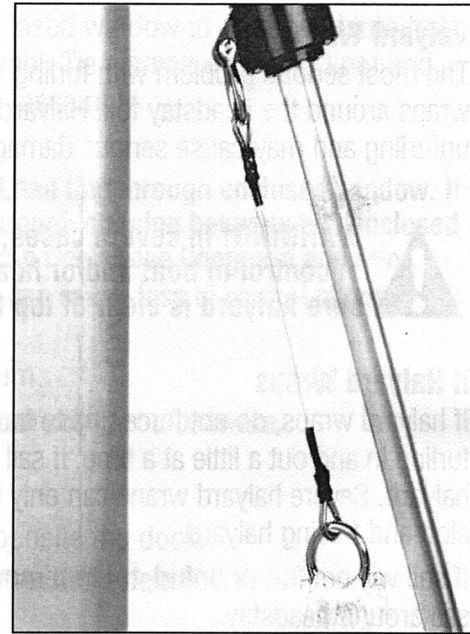
Long link plate note: If a long link plate is used, add the following dimensions to feeder, tack shackle, and drum height (based on whether plate is used full-length or shortened to one of five hole positions). Do not add to halyard swivel or top terminal dimensions.

5/8" (15.9 mm) Clevis pin	Add 16 1/16" to 8 1/4" (408 mm to 210 mm)
3/4" (19.1 mm) Clevis pin	Add 13 9/16" to 5 11/16" (344 mm to 144 mm)

Pendants

If the your sail luff is not long enough to position halyard swivel high enough to create an 8–10° angle as shown, you must add a pendant. Pendants should be made of plastic-coated wire and be permanently attached so sail height will be correct. Adjustable-length pendants are not acceptable, as they might not be adjusted correctly during a sail change.

1. Raise sail so sail is near the top of the foil.
Do not attach tack shackle.
2. Position halyard swivel correctly near top of headstay.
3. Secure halyard.
4. Tie a piece of rope to sail tack.
5. Lead line through tack shackle on furling drum.
6. Tension sail.
7. Measure distance from tack shackle to sail tack and permanently attach pendant of this length to head of sail.
8. Repeat procedure for every jib in your sail inventory.



Halyard Deflector/Halyard Restrainer

To prevent wraps, jib halyard must pull slightly to rear. On most boats, halyard lead angle is acceptable if halyard swivel is raised to top of foil. On some boats halyard sheaves are located too close to headstay and a Halyard Deflector or Halyard Restrainer must be used.

Halyard restrainers should be used only when required by masthead geometry. Restrainers tend to limit sail luff length and may cause problems if not installed properly.

If your boat needs a Halyard Deflector, use Part No. 7303 or a Halyard Restrainer, use Harken Part No. 945.

Restrainer should be mounted as high as possible on face of mast. Position restrainer so that foils will not hit it when under load.

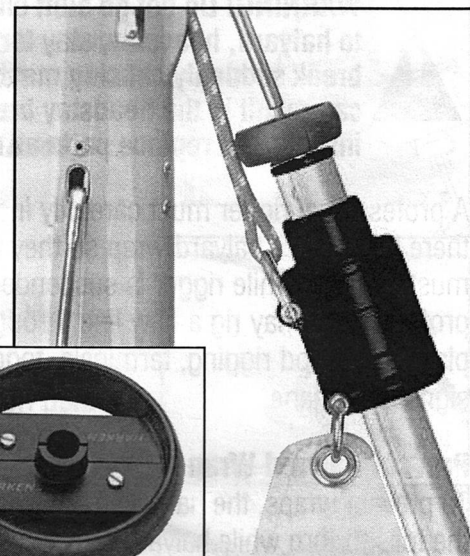
The restrainer should deflect halyard as little as possible or you may experience difficulty in tensioning sail luff, friction when furling, and possible damage to foils. To decrease deflection angles, shorten sail luff.

Tip: Boats used in charter service should have a halyard restrainer, regardless of masthead geometry.

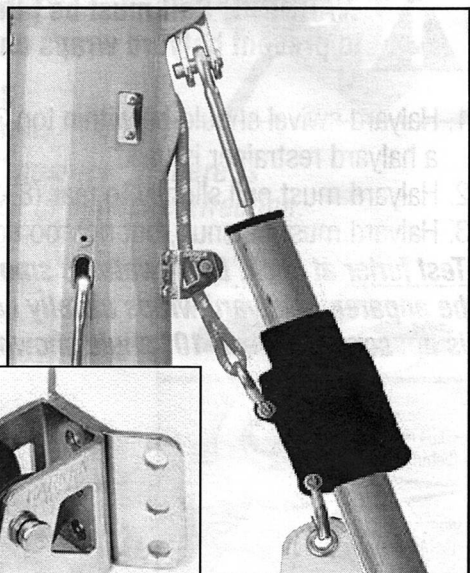
Halyard Tension

The jib halyard should be firm, but not too tight.

Tip: The luff foil system supports sail along its length so halyard tension is used only to shape sails, not to support them. Use enough halyard tension to remove some wrinkles along luff of sail. Do not tension halyard enough to cause vertical wrinkles in luff of sail. Tension to adjust position of draft in sail to suit sailing conditions. Halyard should be firm but not tight. If in doubt, release halyard tension. To protect sail, ease halyard when boat is not in use.



Halyard Deflector



Halyard Restrainer