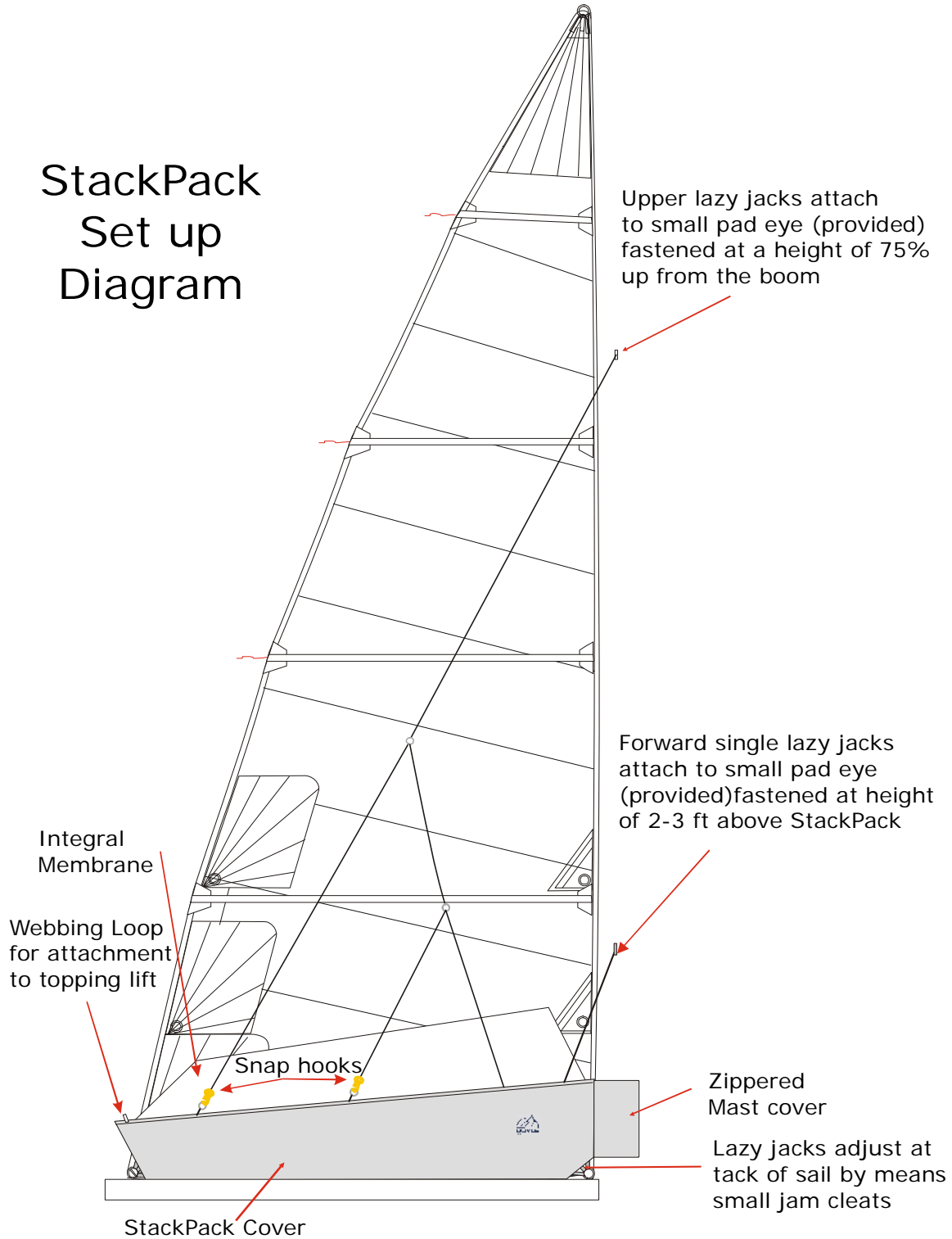


# DOYLE STACKPACK MANUAL

# StackPack Set up Diagram



### The Doyle StackPack

Upon receiving your new Doyle StackPack and before starting actual installation, we recommend laying out your StackPack on a hard surface in a secure location, such as your basement or garage, to familiarize yourself with your new StackPack and its components.

Please check for the following items, included in your StackPack system:

- Custom Mainsail with attached sail cover and coiled lazyjacks
- Bundle of full length sail battens and (2) long StackPack cover battens
- Small gray bag containing Batten Installation Guide, (4) small stainless steel pad eye, and (8) fastners (either hammer rivets or self tapping screws)
- Batten Installation Instructions

In addition to the supplied components, you will also need:

- Bosun's chair
- Electric drill (preferably cordless)
- 3/16 drill bit
- Roll of vinyl rigging tape
- Hammer for rivets OR Phillips screwdriver for self tapping screws
- Felt tip marker for pad eye location

### Steps for Installing the StackPack

1. Unroll your StackPack mainsail system on the deck.
2. Starting at the front of the boom, slide the foot of the sail into the boom.
3. Attach tack and clew, and tension the outhaul.
4. Uncoil battens, being careful as the battens are under tension.
5. Install sail battens into sail (see enclosed Batten Installation Instructions).
6. Install sail onto the mast.
7. Install (2) long StackPack cover battens, making sure to install forward lazy jack lines through the grommet so the loop is around the batten.
8. Flake sail and zip StackPack cover closed.
9. Install upper pad eyes on side of mast, fastened at a height of 75% up from the boom.  
Note: Do not install on back of mast.
10. Rig upper lazy jacks to upper pad eyes. Adjust snug so rings on lazy jacks are even on both sides, and tie them off with a series of half hitches (see diagram). Finish by seizing line ends with vinyl rigging tape. Note: Lazy jacks should not come in contact with rigging, shrouds, or any equipment.
11. Install lower pad eyes on the side of the mast, fastened at a height 2 to 3 feet above the StackPack (see diagram).

12. Tie off forward lazy jacks to lower pad eyes. Finish by seizing line ends with vinyl rigging tape. Note: Lazy jacks should not come in contact with rigging, shrouds, or any equipment.
13. StackPack lazy jacks adjust by means of small cleats on either side of the sail at the tack. Adjust the lazy jacks so cover is relatively straight along the top.
14. At this point, a trial run should be performed. The best conditions are on a calm day or when head to wind. Make adjustments so that when sail is at full hoist, lazy jacks should be relaxed but not overly slack.
15. When comfortable with the adjustments, lower sail, zip cover closed, bring halyard back and hook to snap hook on cover. Finish installation by zipping on the mast cover.

### **Final Adjustments**

- With the cover zipped, stand back and examine the set of the cover. The top edge should run fairly straight from the mast to the aft end of the cover.
- Adjust the forward lazy jack lines to support this end. The cover should be upright with these lines just taking a load.
- With the line attached to the webbing loop at the aft end, use a rolling hitch around the top lift and tie off to the other webbing loop. This line should only be tight enough to keep the aft end of the cover from sagging.
- A final adjustment to the lazy jacks at the tack may be necessary to remove any sag or bow remaining in the top edge of the cover.

### **Points to Remember**

- The StackPack is a simple, efficient sail handling system, but it is not automatic. A few moments spent tweaking the sail into the cover will insure smooth operation of the zipper and a neat appearance of the cover.
- If your boat is not equipped with a rigid boom vang, be sure to tighten your topping lift to relieve load on the lazy jacks. Lazy jacks are not designed to withstand the dynamic load of a dropping boom.
- Lazy jacks must be cleated securely in their cleats at the tack. If the lazy jacks come loose while the sail is being lowered, the sail will tend to fall outside of the cover.
- The forward mast cover is fitted with separating zippers that zip to the StackPack on each side. If your mast has winches or rigging that interferes with the fit of the mast cover, carefully mark the cover at these points and return the mast cover portion to your Doyle loft for modification.

### StackPack Tips

**Head to wind:** To experience the smoothest hoisting and lowering of the mainsail, it is always best to be directly head to wind whenever possible.

**Flaking the luff:** While lowering the sail, a guiding hand at the mast goes a long way in producing the neatest and most compact drop.

**Helping the zipper:** After the sail is completely in the cover, if the top of the cover is reachable, the best technique is to hold the cover battens together as you zip the cover closed. This takes the load off the zipper slider and will help the life of the zipper teeth.

**Cleanliness:** Keep the cover free from dirt will help to maintain smooth operation. Before removing your StackPack, be sure your deck is clean and that your mast and boom have been wiped clean in the areas that will come in contact with the cover.

**Maintenance:** A thorough cleaning and yearly maintenance inspection of your StackPack is advisable. When removing the StackPack, it is easiest to leave the lazy jacks and battens with the boat.