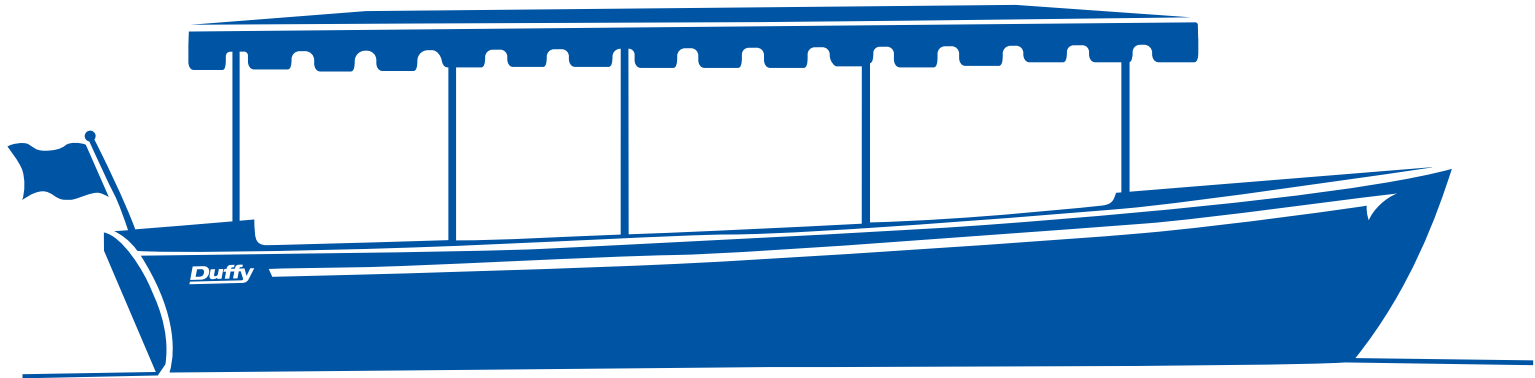


# *Duffy*

## **Rigging Manual**



**The First and Finest in Electric Boats Since 1970**

**Applies to 2020 Duffy Models:**

Back Bay 16   Snug Harbor 18   Bay Island 22   Sun Cruiser 22   Cuddy Cabin 22

# Tools to Rig Your Duffy



3/16"

Using an Allen socket set up will save you time, but you can use a regular Allen wrench.

## You will need:

- Trim knife
- Allen sockets or Allen wrenches
- Needle nose pliers
- Rubber mallet

## Recommended (But not required):

- Electric Tape
- Loctite™



Trim Knife



1/8"



Using this type of Allen tool will work but take longer to assemble.

- Rubber mallet
- Allen Socket wrench
- Needle nose pliers



We recommend using a little electrical tape and Loctite™ but it is not mandatory.

## Optional Supplies



# Cut Shrink Wrap (from shipping)



Using a trim knife, cut between the frame tube and the deck all the way around the boat. Pull the wrap away from the boat when cutting so you don't scratch the fiberglass surface.



# Remove Surrey Frame



Cut the tie wraps from the hold down brackets so you can lift off the frame. Two people can easily lift and set the frame down on the ground.



Remove the hold down brackets and save the screws. You can re-use the hold down brackets so you may want to save them for the future.

# Remove Items From Inside Boat



Locate the top legs wrapped item and open.

Removing everything inside will allow you to move easier to install the metal frame and surrey fabric top.



# Install the Top Legs



Use your 3/16 Allen socket or wrench.



Each leg base has a number on the bottom. The numbers go from 1 – 10. Start with number one on the port side most forward location. Then number two will be directly behind number one and so on around the boat. The number 16 represents a Duffy 16 boat model.

Secure each fastener snugly. Anti-Seize material has been previously put on the threaded plate that is under the deck. This will allow you to remove the top in the future.



Leg number 1 starts here.



# Install the Top Legs (continued)



Locate the small plastic bag taped to the surrey frame. You will see the small set screws for the top frame and three extra screws for the legs in case you lose any.



You will NOT be installing these two legs until AFTER the frame has been put on the other legs.



# Install The Top Frame to The Legs

You will need your 1/8 " Allen wrench or Allen socket, needle nose pliers, and rubber mallet.

Set the frame against the boat. Have two people inside the boat and one outside. The outside person can easily start the frame up while the two inside assist. Guide the sockets onto the legs one by one. Don't need to have leg seat all the way down into the socket at this time. Just want to have it safely holding up on the eight legs.





# Install The Top Frame to The Legs (continued)



Two of the legs will require you to fish the wire that is on the frame down through the leg.



You may find it easier to use your needle nose pliers for pulling the wire out through the bottom hole.



Connect the wires from the boat to the frame. Make sure you connect the yellow to the yellow wire. Wrap some electrical tape if you like.



Push the wires and connectors through the hole and then secure the leg using the fasteners. Wrap some electrical tape over connectors if you wish.



# Installing the Frame to Legs (final steps)



Pull down hard on each socket onto the leg and use the rubber mallet to insure the leg is at the bottom of the socket. Failure to do so will result in the windows not fitting properly!



You may want to install some *Loctite™* material on each set screw.



Install the 1/8 inch set screws that were in the bag tapped to the surrey frame. Tighten snugly for a secure fit. Notice that we are using two in the four corners. Please install ALL the set screws. High winds can remove the top!



# Installing The Fabric Surray Top



Careful when using your trim knife on this box you may cut the surray!



Lay the top on the frame as shown. Start at the rear and go over the stern light.



Find the Velcro flaps on the top. This is the rear of the top.



# Installing The Fabric Surrey Top (continued)



Spread the top on the frame as shown. Secure one corner first then go to the opposite corner and secure. Never secure more than one or two Velcro tabs per side before going over to the other side. You can always come back later and re-adjust a bit but it's best to go from side to side pulling the valence over the tube and then securing the Velcro tab.



The zippered forward and aft stripes are needed in case of super heavy winds. We install the zipper in case you want to enjoy the sun you don't have to unlace the flap to peel back the top.



# Installing The Window System



Do not open with your trim knife.

Push the zipper ends to the back of the tube as shown. Do not run the zipper all the way out. Stop at the top tube.



The window panels are marked on the inside with numbers 1 through 10. When installing the numbers and lettering should be facing INSIDE THE BOAT.



Loop the strap over the tube and back into the plastic fitting. The port forward window is number one and number two window is directly behind it and so on all the way around.

Make sure the bottom of the window covers the plastic track completely.



# Installing Bottom Velcro & Removing Top Velcro Strip



Install bottom Velcro strip as shown.



Remove the Velcro located on the surray top edge. The strip was installed to make it easier for you to put the windows up. This Velcro will seal the surray to the window flange keeping water out.



# Battery On/Off Switch



Duffy 16 Back Bay

Turn **ON** the main battery switch. You only need this switch when transporting. Turning it to the OFF position will not allow the batteries to charge.



All Other Duffy Models (Under Port Seat)

Duffy 16 Back Bay switch is in battery box. All other models switch is under seat on port side.



# **PLEASE READ**



Locate a 120 Volt power outlet and plug in your Duffy after you finish the rigging process. Batteries do not come fully charged. **Confirm charger is working by looking at the charge indicator light on the dash.** Check the main AC panel on the boat if light does not illuminate. **Confirm power outlet is working.** Charge overnight or for at least **12 hours** before using the boat.

**Battery performance will increase after several charge cycles.**

***Never leave the boat unplugged when not in use.***

**Congratulations, you're done!**

**Enjoy your Duffy!**

***Duffy***