

Composite Recycling Technology Center  
2220 West 18<sup>th</sup> St.  
Port Angeles, WA 98363  
[www.CRTC-WA.org](http://www.CRTC-WA.org)



## Boom Segment Replacement Procedure

If a segment of the carbon fiber boom ever becomes damaged or the elastic cord inside the boom needs to be replaced, the following procedure can be utilized.

**Caution:** The interior elastic cord that runs through the boom is under tension and is unpredictable when cut. Please be sure to wear appropriate eye protection.

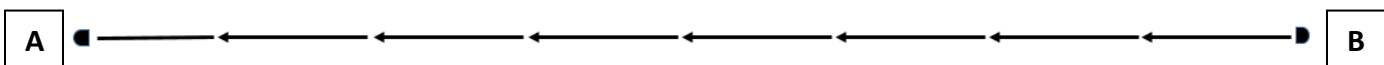
### Removing damaged boom segment:

- Fold the boom up so that it is in a bundle.
- With the boom folded so that it is not under tension, if you have a replacement cord available, use a pair of scissors to cut the internal elastic cord. The cord can be cut anywhere since it will not be saved and will be replaced. If you do not have a replacement cord, it may be possible if you are careful, to pull the cord at the end cap and snip the cord right after the knot in one of the end caps. The key is to still have enough length left to restring the boom and be able to tie a knot in the end cap.
- Remove the cord by pulling it through each of the boom segments so that all the boom segments are separated. Keep the pieces in order so that you can put them back together in the same order when you get to the restringing step at the end of the repair.
- You will want to save the end caps that the cord goes through so they can be reused.
- Remove the damaged boom segment and swap it out with a new segment. Set the damaged segment to the side. Please be sure to save the end caps so they can be reused.

### Restringing the boom:

The order of the segments of the boom are as follows:

End A> Plastic endcap, Segment without internal ferrule plus 7 segments with internal ferrule <End B



\*Arrow denotes direction of the internal ferrule

- Tie a simple overhand knot in one end of the replacement shock cord.
- Starting at end A, feed the untied end of the shock cord through the first plastic endcap and then through the segment without the internal ferrule and then through each of the remaining 7 segments with internal ferrules (ferrule end first), until all the segments have been strung.
- Feed the shock cord through the second plastic end cap on end B.
- While holding the boom end at B, pull the shock cord past the end of the boom in order to tension the line.
- With the cord nicely tensioned, tie an overhand knot one foot in from the end of the cord.
- Take the boom sections apart and then reassemble the boom to double check the tension and the segment order to make sure everything goes together and comes apart correctly.
- When you see that it does, trim both ends of the shock cord 1/8" - 1/4" from the end of knot.

Your boom is now ready to play so you can enjoy the great game of pickleball.

Thank you again for your purchase of the SwiftNet®. The CRTC is a 501(c)3 not for profit that is working to do our part to help keep 50 million pounds of carbon fiber scrap from going into landfill globally. We take carbon fiber that would normally go into a Boeing 777X or 787 jetliner, and repurpose it into cool products that we design and sell that help to improve people's lives. In manufacturing these products here in Port Angeles, WA we provide employment to those who need a hand up. Your purchase of the SwiftNet® helps to keep people employed, so we very much appreciate it. You can learn more about the CRTC at [www.CRTC-WA.org](http://www.CRTC-WA.org)

If you ever have the need for additional spare parts or accessories, they can be found on our SwiftNet® website at:

[www.swiftnet.pro](http://www.swiftnet.pro)

Please contact us should you ever have any questions as we are here to be of service:

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