

**DoubleWire**™

STERNAL CLOSURE SYSTEM



# DoubleWire™

Sternal Closure System

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The DoubleWire Sternal Closure System consists of a looped wire suture with an attached ball-end or cutting needle and a unique instrument specifically designed to twist DoubleWire sternum sutures. With a single needle, two wires can be inserted simultaneously either transsternal or peristernal. Two wires provide increased surface area and strength compared to that of a single wire suture of the same gauge and material. The DoubleWire Twister allows for a one-hand technique that simultaneously applies tension and twist the DoubleWire suture for final approximation of the sternum.

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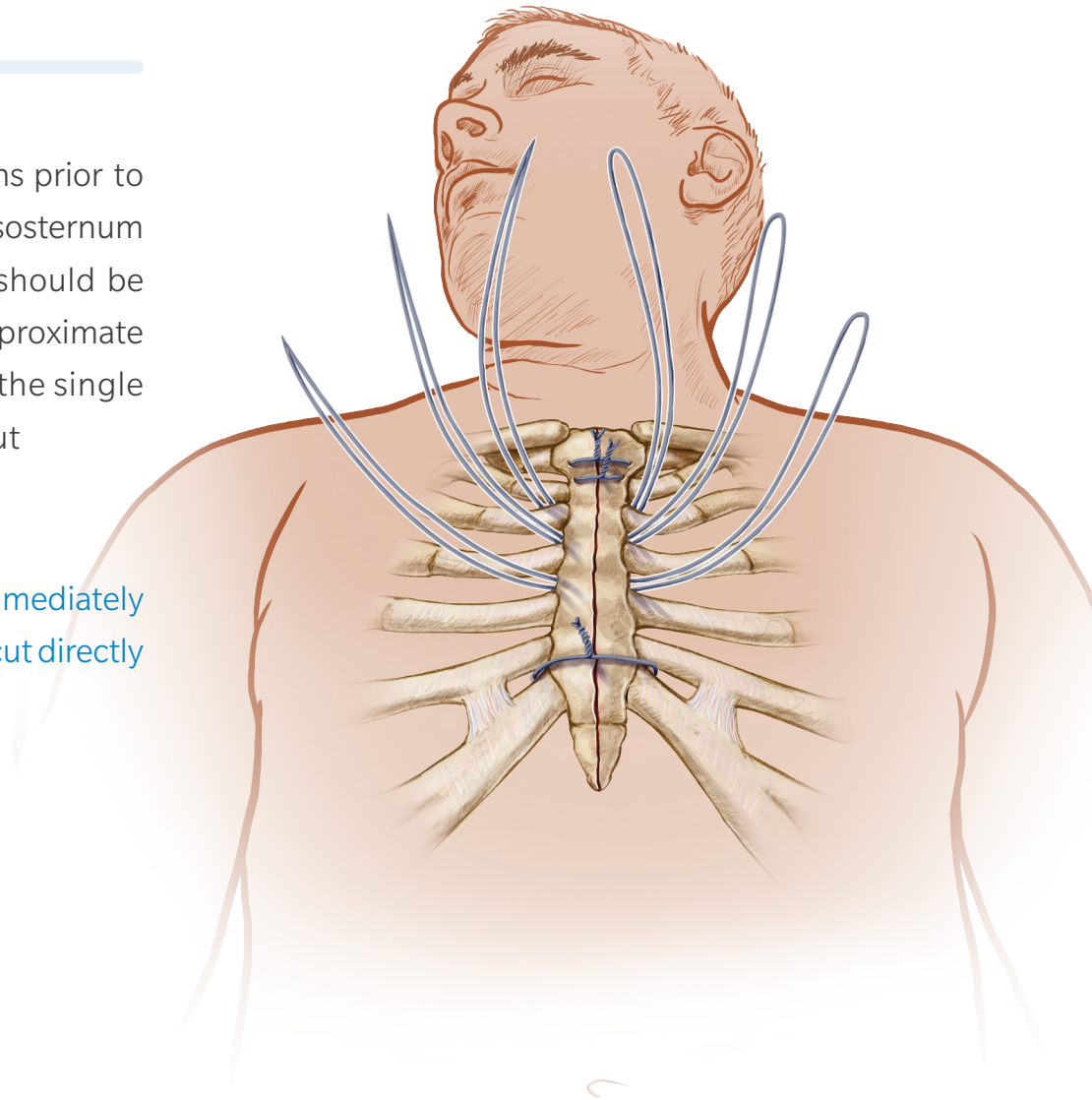
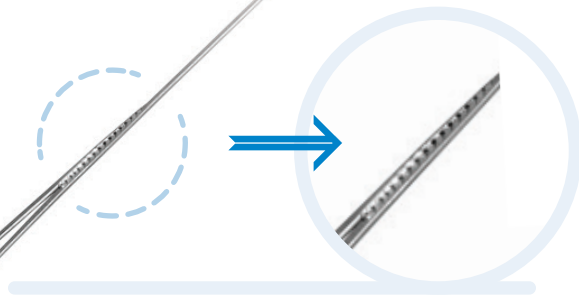


## 1. STERNUM PREPARATION

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All sternum wires are placed in the usual locations prior to sternal closure. Place the DoubleWires in the mesosternum as shown in the illustration to the right. Care should be taken to avoid the internal mammary artery. Approximate the manubrium and xiphoid sternal areas using the single sternal wires. Twist these wires tight and cut but do not fold down into the sternum.

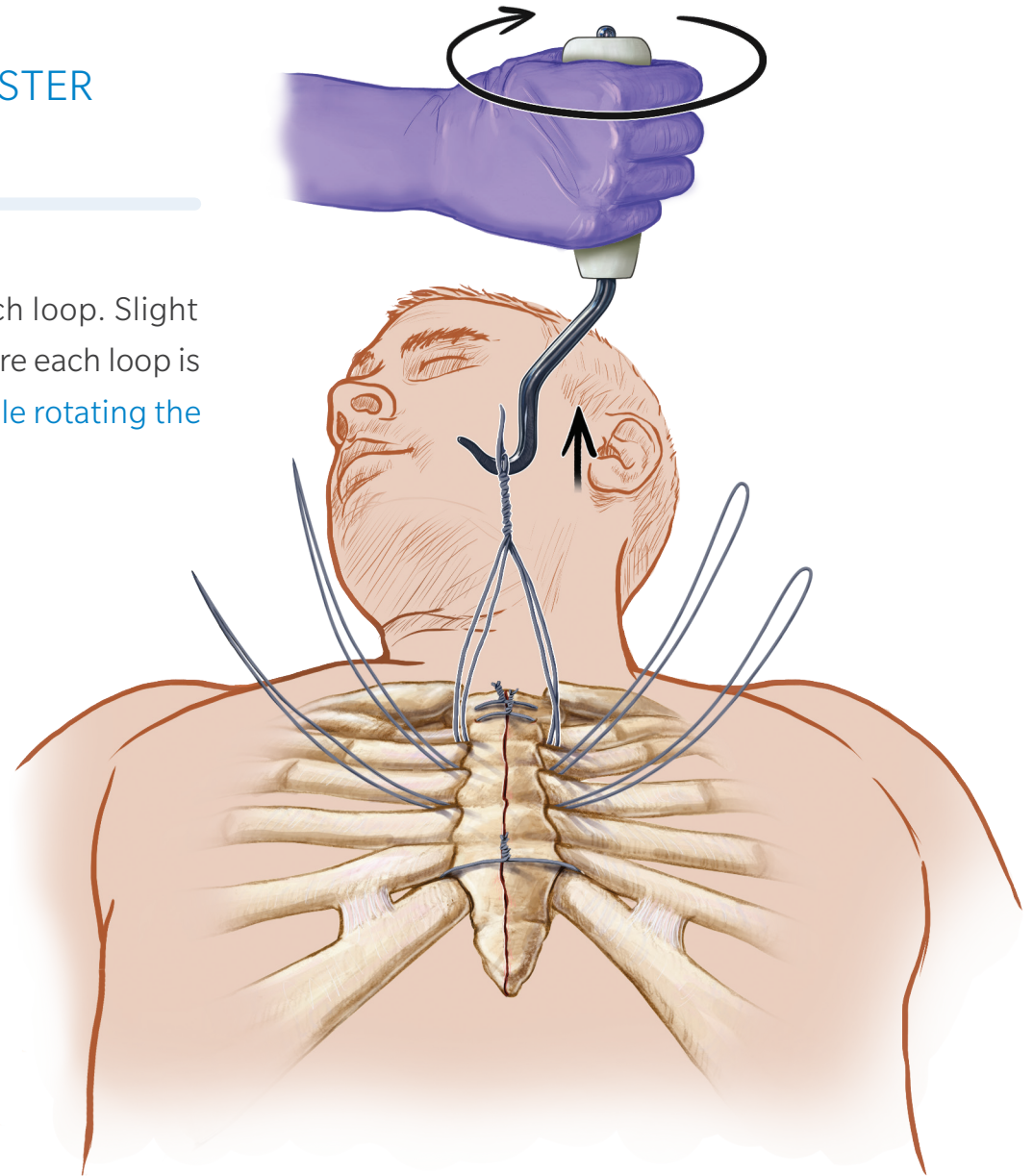
The needle and short single wire length are cut immediately above the DoubleWire tapered weld joint. Do not cut directly on the tapered weld.



## 2. USING THE DOUBLEWIRE TWISTER

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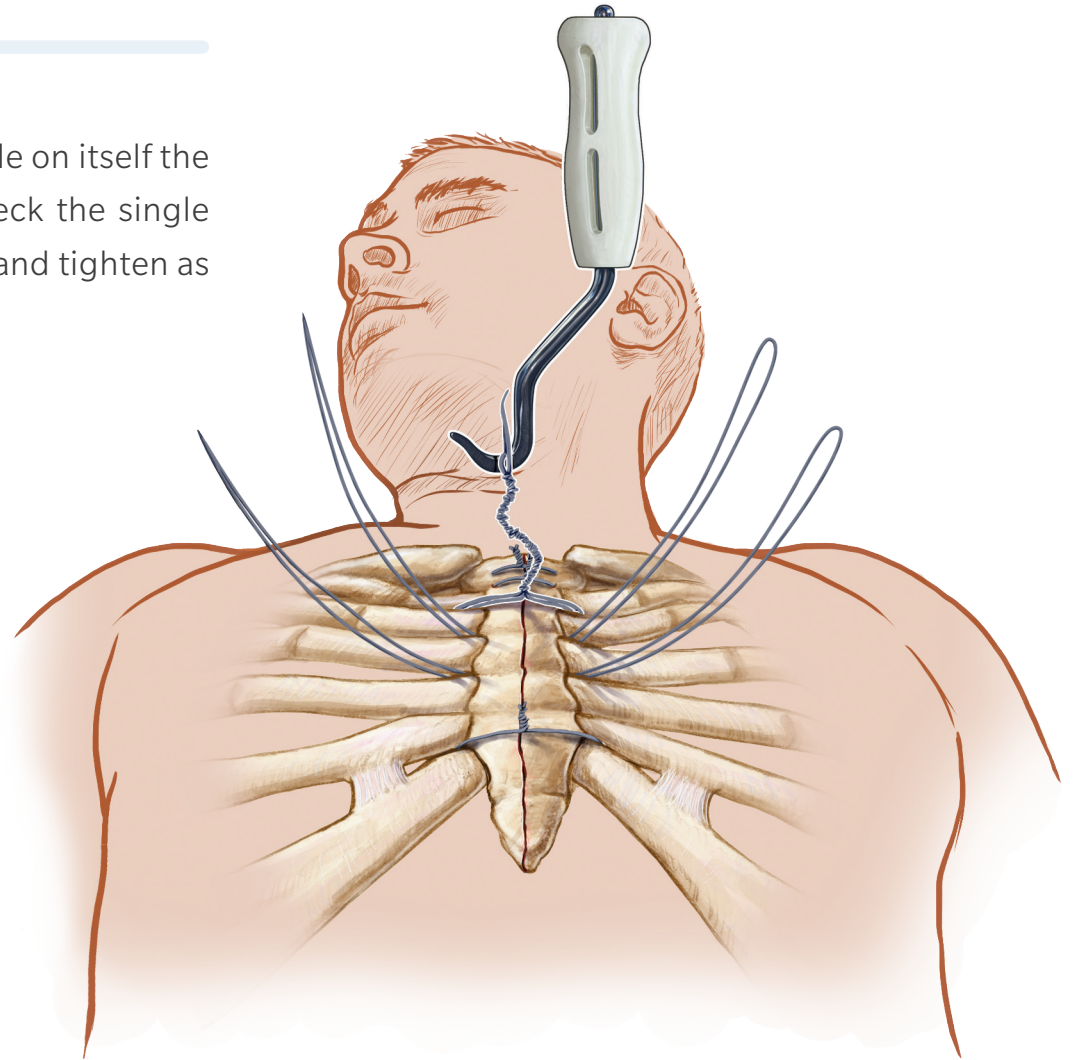
The DoubleWire Twister is inserted into each loop. Slight upward force is applied to the Twister to insure each loop is even on both sides of the sternum. **Twist while rotating the Twister instrument in a circular motion.**



### 3. CONCLUDE TWISTING

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When the DoubleWire starts to double cable on itself the twisting action should be terminated. Check the single wires in the manubrium and xiphoid areas and tighten as necessary.



## DoubleWire - (3 wires per package, 12 packages per box)

| NEEDLE | NEEDLE SIZE | USP #6 - 14" DOUBLEWIRE | USP #8 - 14" DOUBLEWIRE | USP #6 - 18" DOUBLEWIRE |
|--------|-------------|-------------------------|-------------------------|-------------------------|
| BE#1   | 85 mm       | 046-217                 | 048-217                 | 046-317                 |
| BE#2   | 65 mm       | 040-365                 | ---                     | ---                     |
| BE#3   | 51 mm       | 046-297                 | 048-297                 | 046-397                 |
| CCS#1  | 49 mm       | 046-237                 | 048-237                 | 046-337                 |
| CCS#2  | 59 mm       | 046-267                 | 048-267                 | 046-367                 |
| CCS#3  | 49 mm       | 046-287                 | 048-287                 | 046-387                 |

## DoubleWire and Single Wire Combination Packages

| DOUBLE WIRE NEEDLE | SINGLE WIRE NEEDLE | USP #6 (All wires)   3 each 14" DOUBLEWIRE AND 3 each 18" SINGLE WIRE PER PKG. 12 PKG/BOX |
|--------------------|--------------------|---|
| CCS#2              | CCS#2              | 040-354   |
| BE#1               | CCS#2              | 040-355   |

| DOUBLEWIRE TWISTER<br>(each non-sterile) |
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| 040-400                                  |



For more information on DoubleWire Sternal Closure System and other thoracic fixation solutions, please contact us at:

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DoubleWire Sternal Closure System is manufactured by A&E Medical; a Zimmer Biomet company • [zbthoracic.com](http://zbthoracic.com)  
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