

Surgical Technique

Ankle Syndesmosis Repair using
Syndesmosis Ultimate Kit



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Achievements

- US FDA 510K Cleared (Arthroscopy | Spine | Nailing | Locking Plates | Screws)
- EC Certificate - Class IIa & IIb
- ISO 13485:2016
- India FDA Approved
- India MDR 2017



80+
Countries
Covered



150+
Distributors
Network



1200+
Implants
Range



20M+
Patients
Treated



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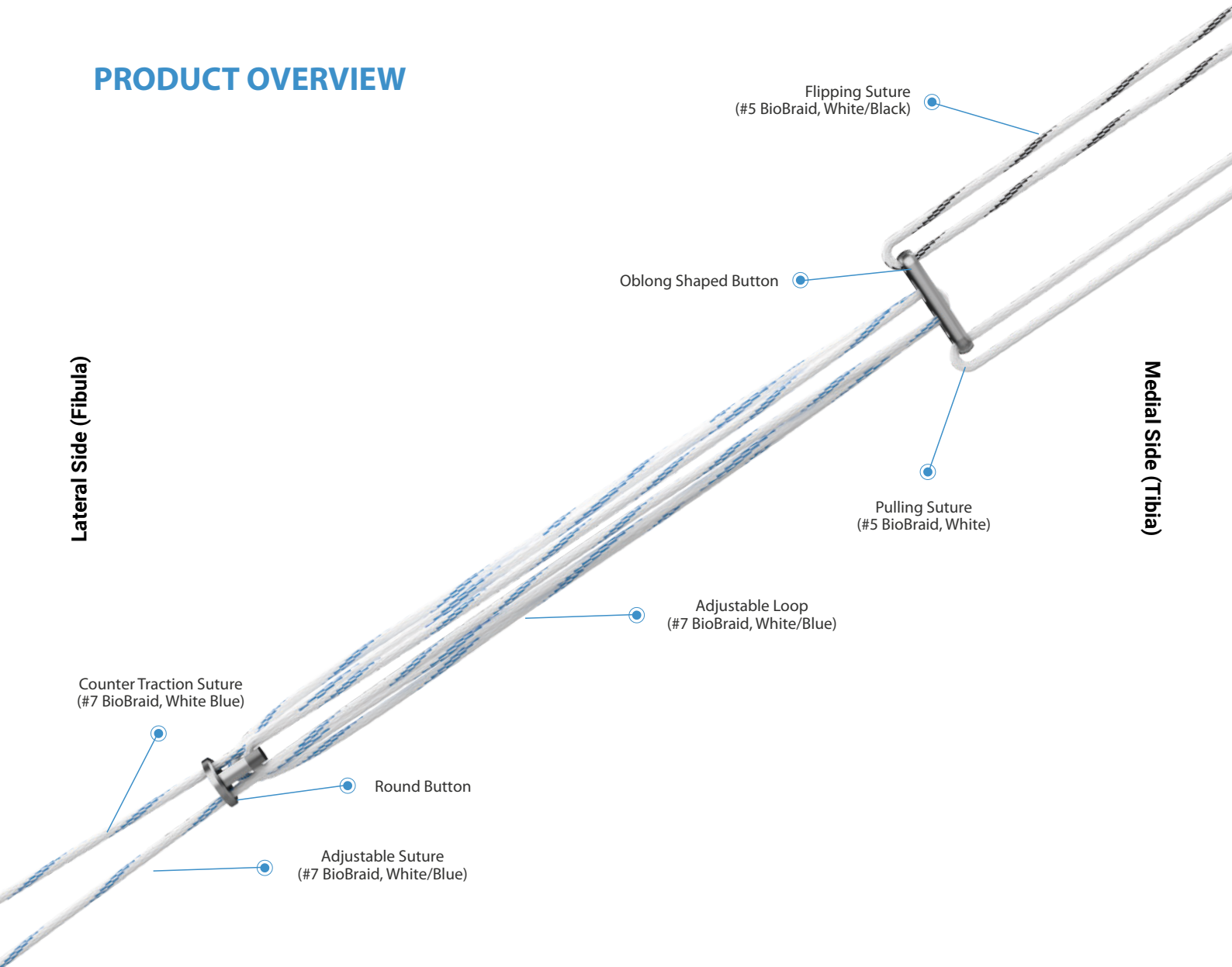
Organised by:  **Auxein**

Contents

Product Overview	01-02
Indications	03
Surgical Technique	03-8
Ordering Information	09
Recommended Instrumentation	09

Syndesmosis Kit

PRODUCT OVERVIEW



AUXILOCK® Syndesmosis Ultimate Kit can be used for Acromioclavicular Joint (AC Joint) separation repair. The kit comprises of adjustable loop with round shaped button (Dia. 5.5mm) and oblong shaped button (L 12mm X W 3.2mm X H 1.5mm). A tunnel is made through the clavicle and coracoid using 1.5mm K-Wire and 3.5mm Cannulated Drill Bit. The kit is passed through 3.5mm drilling tunnel from clavicle to coracoid provides the fixation of round button on the clavicle and oblong shaped button on the coracoid. The syndesmosis kit provides a double locking mechanism which eliminates the need for knot tying and also provides very strong compression on the clavicles.

INDICATION

AUXEIN Syndesmosis Ultimate Kit comprises of adjustable loop with round shaped button and oblong shaped button. The kit can be used in syndesmosis joint repair in Ankle and Elbow. It is also indicated for use in Acromioclavicular Joint (AC Joint) separation repair.

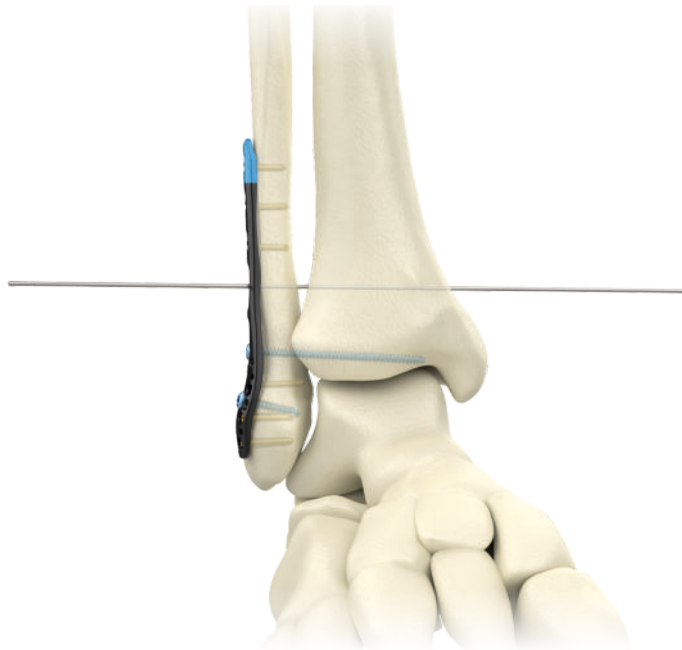
The adjustable loop of syndesmosis kit is made from UHMWPE Sutures. The round shaped button and oblong shaped button are made from titanium alloy. The syndesmosis kit provides a double locking mechanism which eliminates the need for knot tying and also provides very strong fixation.

In AC Joint Separation repair, a tunnel is made through the clavicle and coracoid using 1.5mm K-Wire and 3.5mm Cannulated Drill Bit. The kit is passed through 3.5mm drilling tunnel from clavicle to coracoid provides the fixation of round button on the clavicle and oblong shaped button on the coracoid.

The versatile design of the kit is ideal for use with or without a fracture plate in the Ankle Syndesmosis joint repair. The round button has a tapered slot design which can easily fix on any fracture plate. The kit is passed through 3.5mm drilling tunnel from lateral to medial provides the fixation of oblong shaped button on the medial side and round button on the lateral side of the syndesmosis joint.

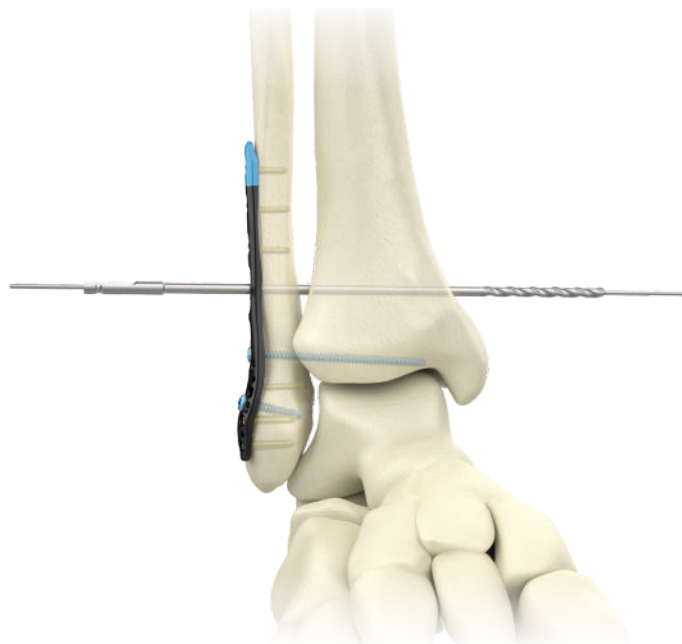


If using a fracture plate, use preferred technique to attach the fracture plate. Use a drill guide to drill a 1.5mm K-wire from lateral to medial through a hole in the fracture plate and all four cortices of the tibia and fibula at preferred angle.



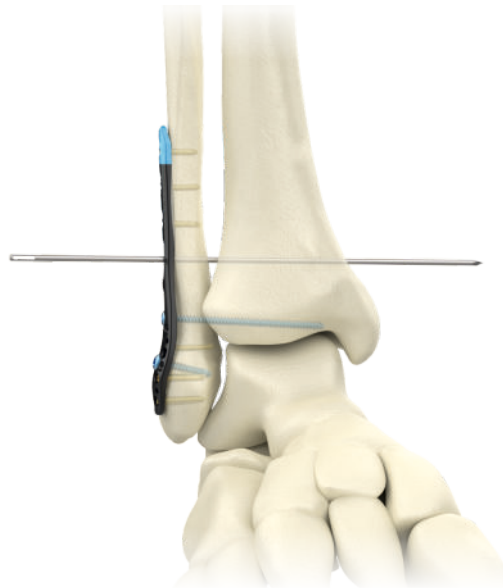
Use a 3.5mm cannulated drill bit to drill over the K-wire from lateral to medial through all four cortices.

Remove the K-wire and drill bit.

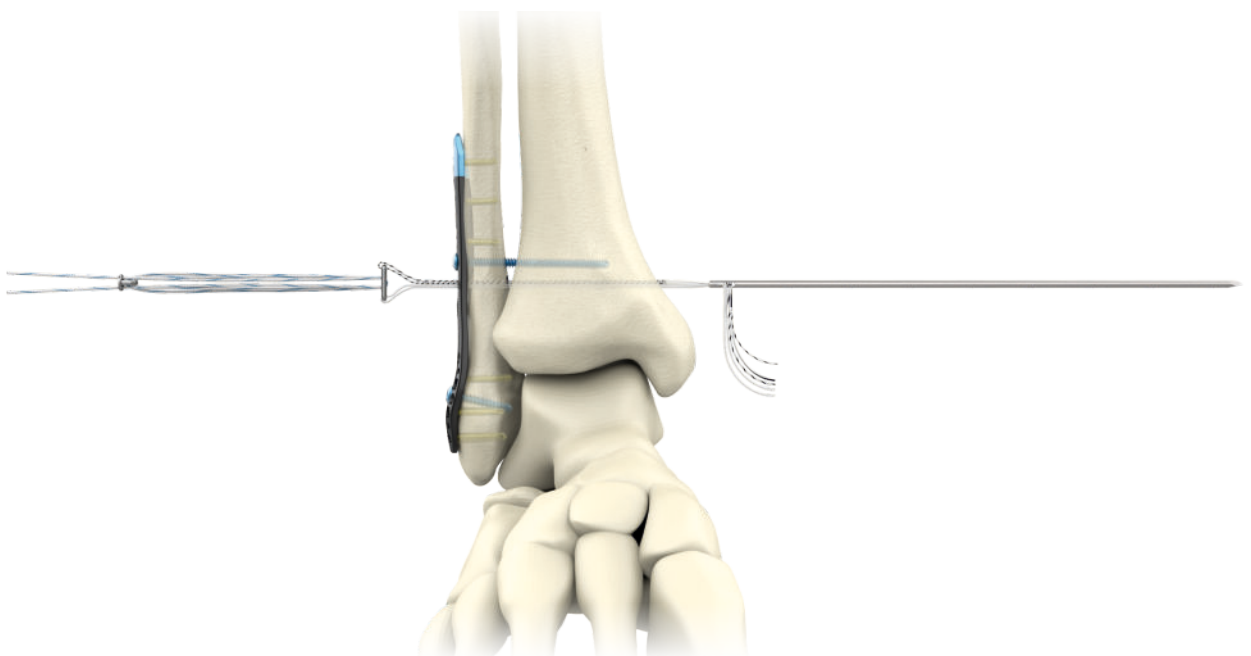


Advance the 2.4mm passing pin from lateral to medial through the fracture plate, all four cortices, and patient's skin on the medial side.

Pull the solid blue counter-traction suture to remove the implant device from the black tension handle.

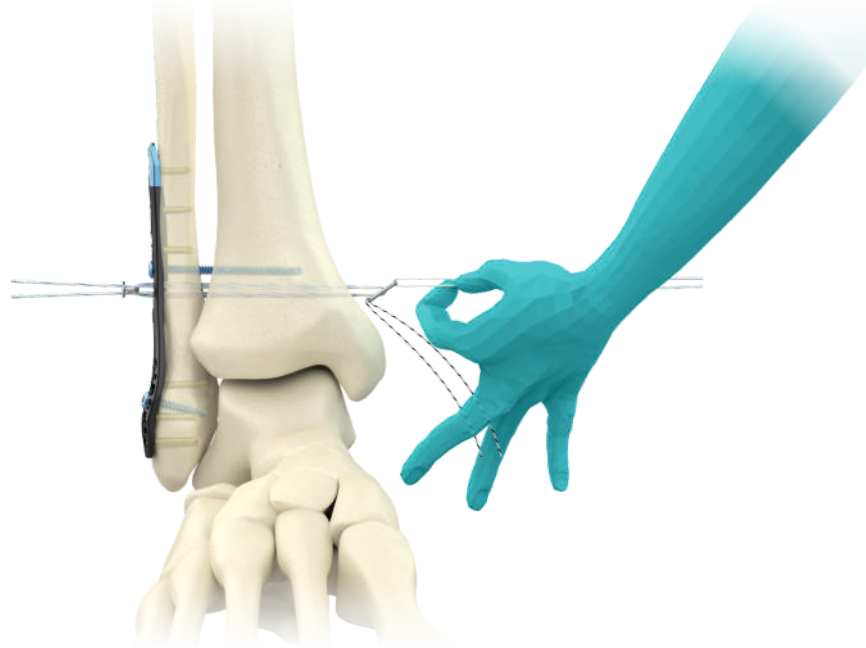


Thread the solid white pulling suture and white/black toggle suture through the eyelet of the passing pin. The passing pin is pulled from lateral to medial to shuttle the suture tails.



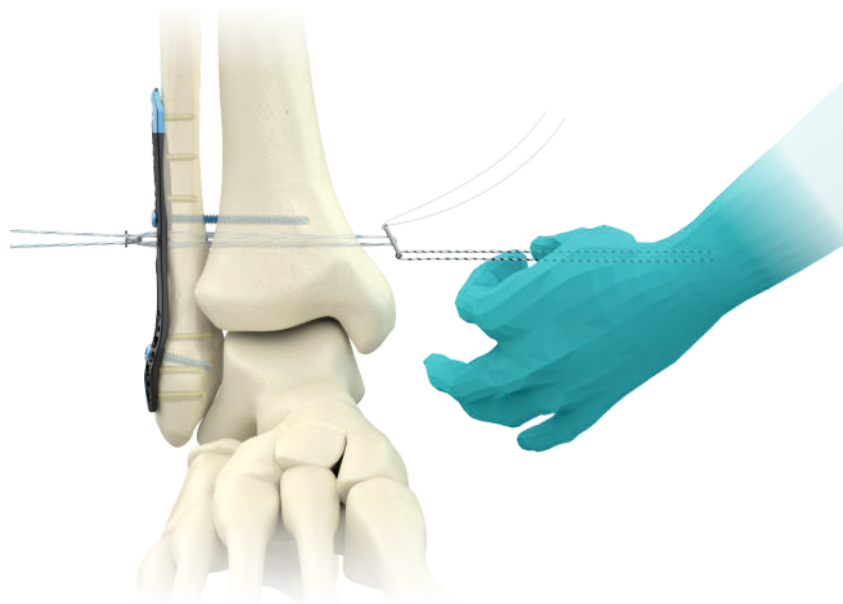
Pull the solid white pulling suture to advance the implant device from lateral to medial until the button clears the medial cortex of the tibia.

Note: Remove slack of the white/black toggle suture as the device is advanced.



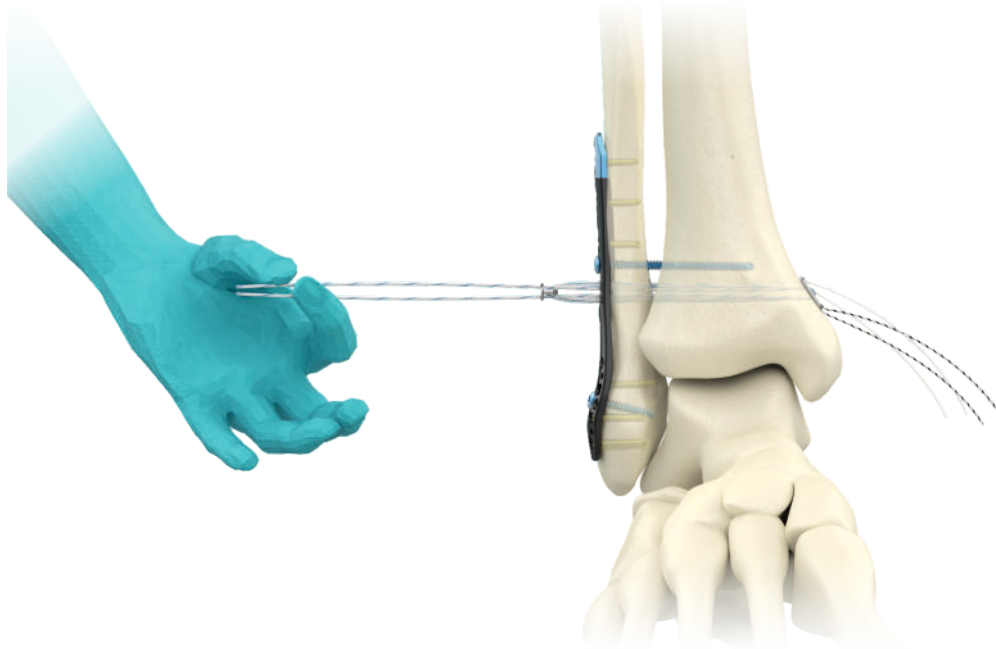
Use the white/black toggle suture to flip the button on the medial cortex of the tibia.

Note: If the button over travels past the patient's skin, create a small incision and push the button backwards towards the medial cortex of the tibia.

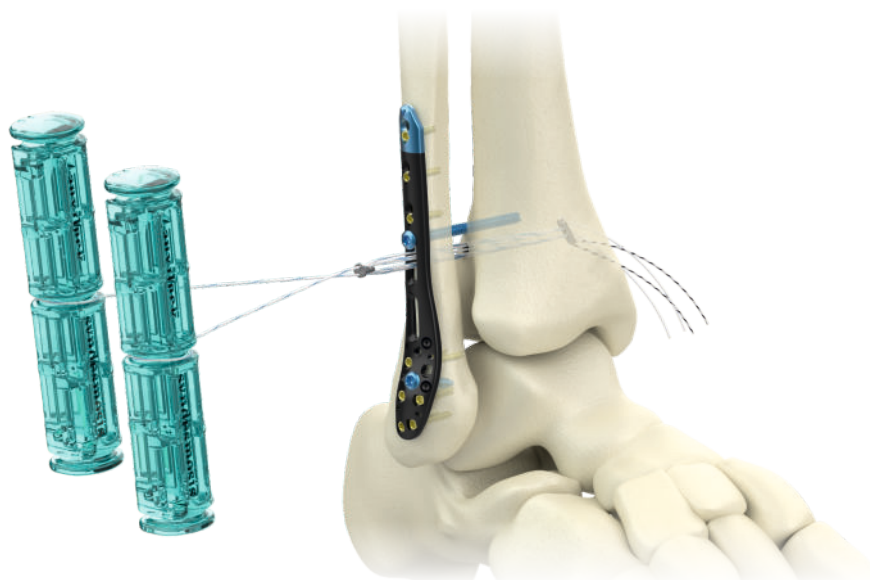


Pull the solid blue counter-traction suture to confirm fixation of the medial button.

Note: At this point there is ~30mm of slack.

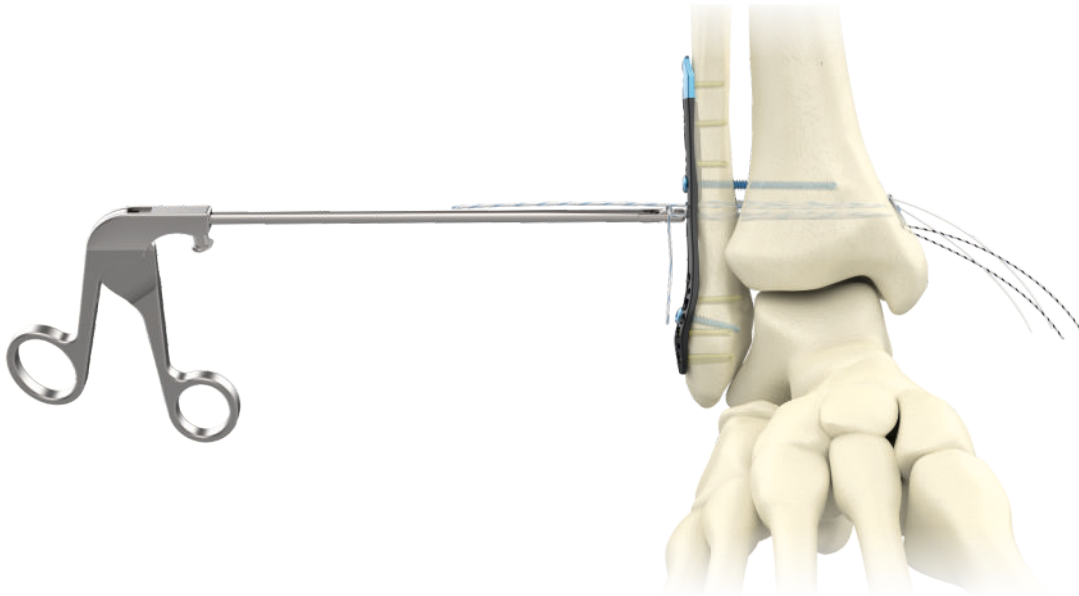


Place the white/blue adjustment suture loop in the central groove of the black tension handle.



Pull the black tension handle to compress the implant device 2-3mm.

Note: Do not compress the implant device more than 2-3mm without removing slack.



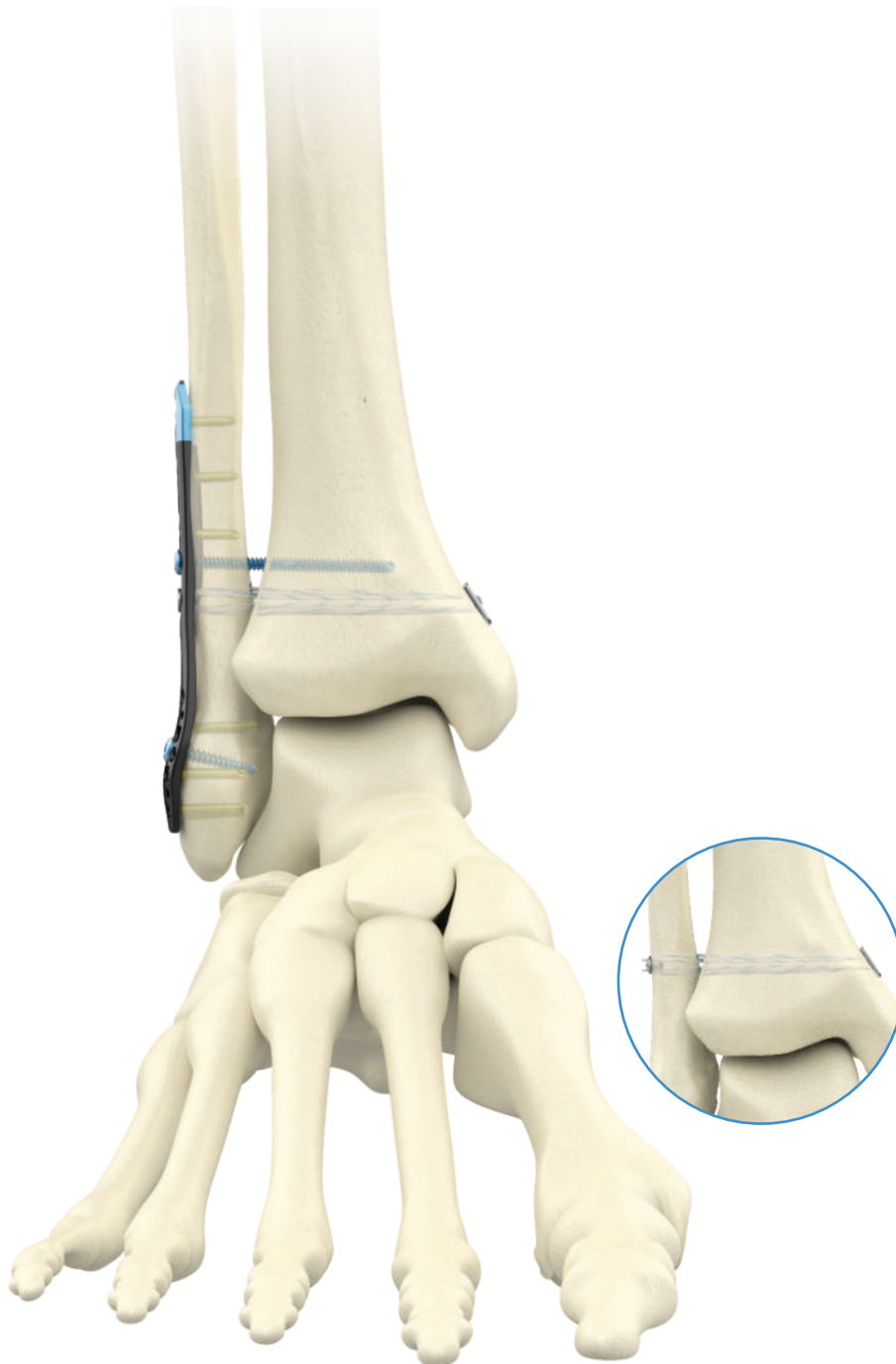
Reduce the force on the black tension handle and pull the solid blue counter-traction suture to remove slack from the implant device.

Repeat steps 13 and 14 until the top hat is seated in the fracture plate or lateral cortex of the fibula (if no fracture plate is used).



Drop the solid blue counter-suture. Use the black tension handle and the white/blue adjustment suture to set final fixation.

Complete the syndesmototic repair by cutting all four sutures.



ORDERING INFORMATION

Code	Product Description
6-041-01	AUXILOCK [®] Syndemosis Ultimate-Kit

RECOMMENDED INSTRUMENTATION

7-147-01 Ø3.5mm Cannulated Drill Bit



7-147-02 Ø1.5mm K-Wire



7-147-03 Ø2.4mm Passing Pin



7-147-04 Suture Pull Handle





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