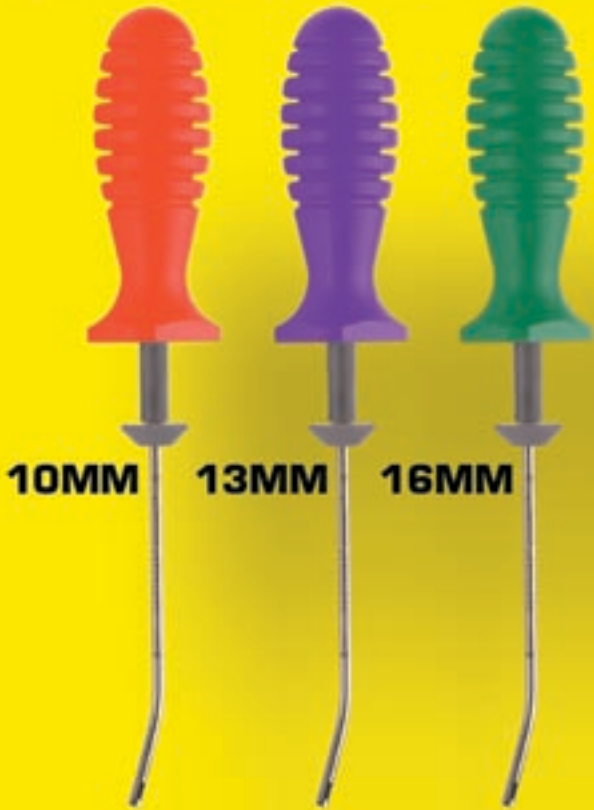


HORNET™

Bio-Absorbable
Meniscal Fixation
Surgical Technique



BIO 
STINGER®
Bio-Absorbable Meniscal Fixation

HORNET™

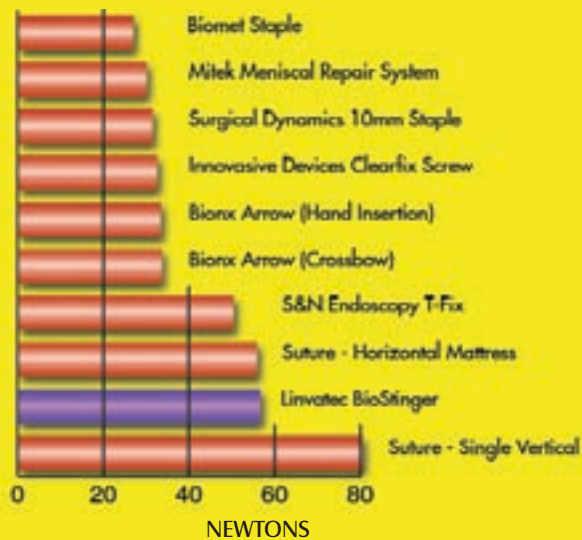
BIO STINGER®

Bio-Absorbable Meniscal Fixation

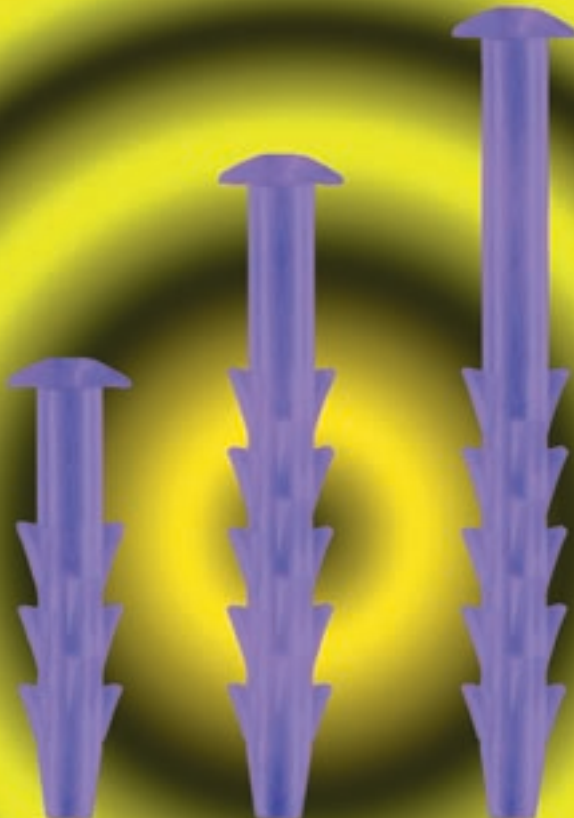
Special Features

- Violet color is visible in the joint
- Bio-absorbable PLLA implant
- Cannulated implant for precise, one-handed placement
- Low profile implant head and built-in countersink minimize condylar contact
- Four rows of barbs for increased pull-out strength
- Hornet delivery system provides a simple one-handed delivery of the implant

MEAN PULL-OUT FORCE



F. Alan Barber, M.D., Plano Orthopedic & Sports Medicine Center, and
 Morely A. Herbert, Ph.D. Advanced Surgical Institutes, Medical City Dallas Hospital,
 Meniscal Repair Devices*



BIOSTINGER™

HORNET™

MENISCAL REPAIR SURGICAL TECHNIQUE



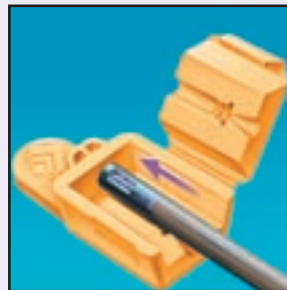
BIOSTINGER™ HORNET™ IMPLANT LOADING INSTRUCTIONS

1

STEP 1: Select the appropriate implant/insertor size based on location and size of the tear. Do not mis-match implant and inserter sizes.

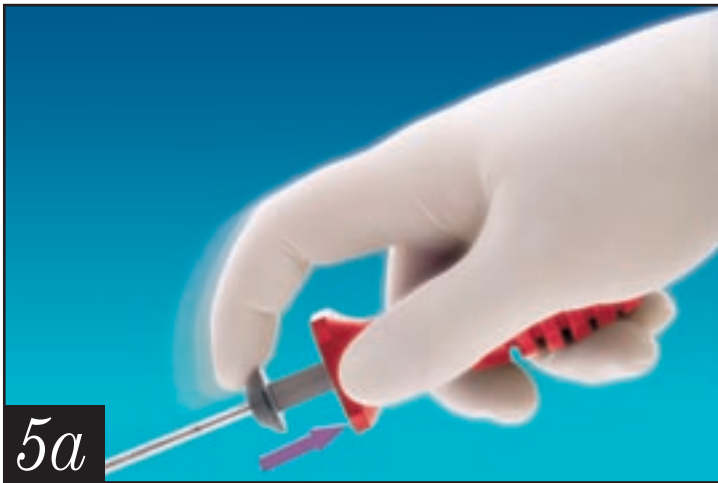


STEP 2: Retract the cannula by pulling back on the distal control knob to expose the trocar needle.

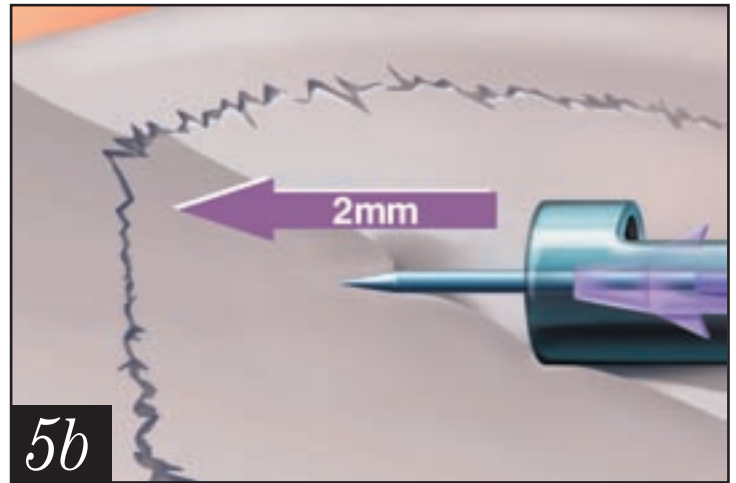


3

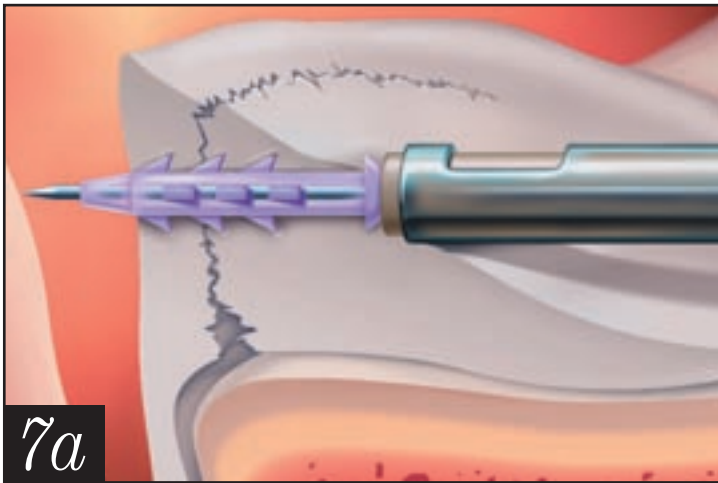
STEP 3: Place cannula assembly portion of the inserter into the opening of the loading tray. Push trocar needle forward into the cannulation of the implant. Raise lid of loading tray and allow cannula to cover the wire and implant until the implant is fully seated in the cannula assembly.


5a

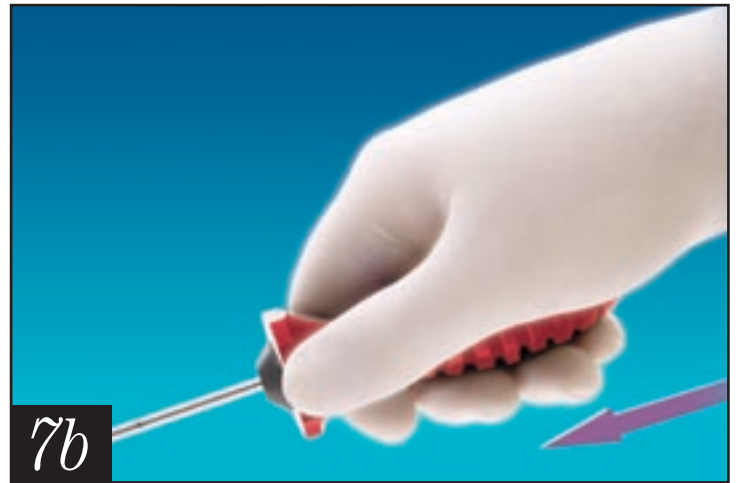
STEP 5a: Retract the cannula approximately 2mm by pulling back on the distal control knob to expose the trocar needle.


5b

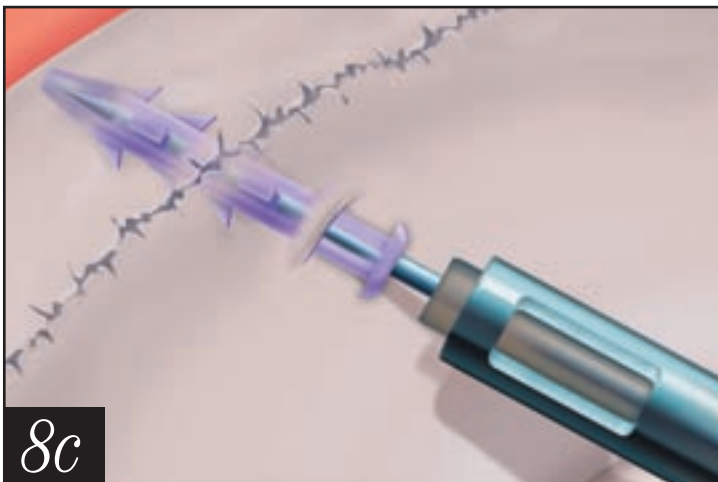
STEP 5b: Reduce the tear with the tip of the needle.


7a

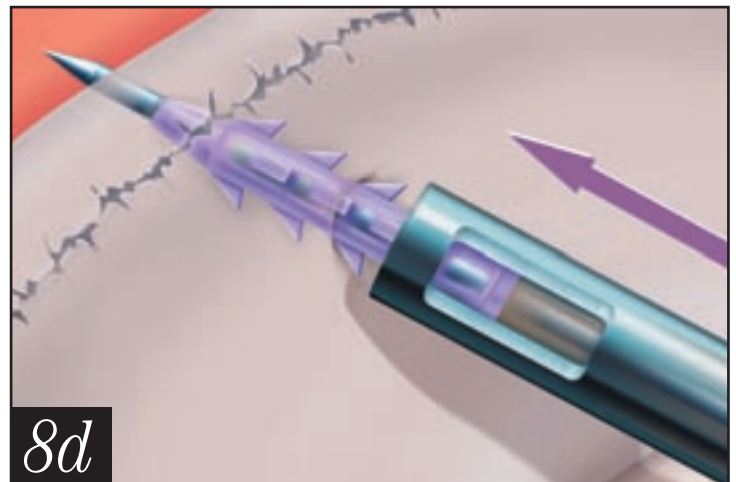
STEP 7a: Push the handle until the head of the implant is countersunk 1/2mm into the surface of the meniscus, creating a dimple.


7b

STEP 7b: The distal control knob will contact the handle when the implant is fully deployed.


8c

STEP 8c: If the head is protruding, apply forward pressure to fully seat the implant.


8d

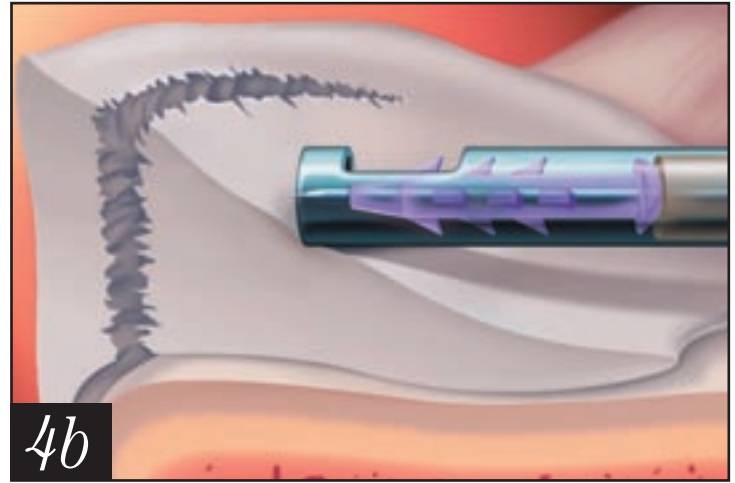
STEP 8d: If the shaft of the implant is protruding, allow the cannula to extend to the meniscus surface before applying forward pressure.

Note: To place additional implants of the same size, please refer to Steps 1–3 for loading instructions. If a different size implant is desired, then the corresponding inserter must be used.

IMPLANTATION INSTRUCTIONS



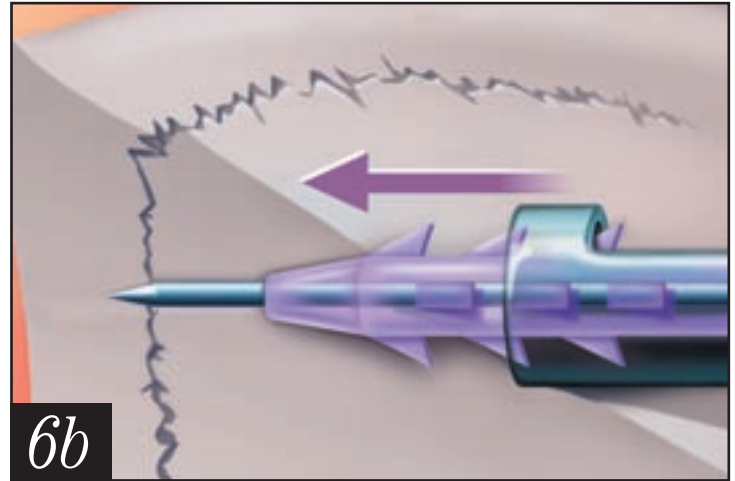
STEP 4a: While maintaining forward pressure on the distal control knob, keep the implant within the cannula.



STEP 4b: Direct the inserter into the joint.



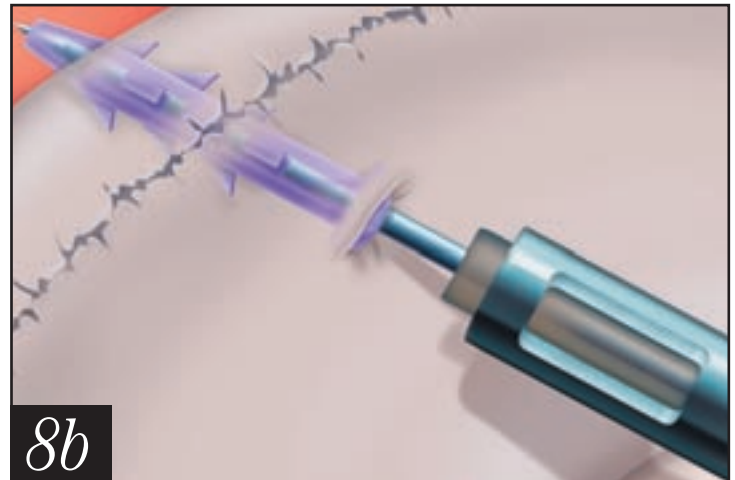
STEP 6a: Once the tear is reduced, release the distal control knob. When the cannula tip is against the meniscus surface, push the handle forward to drive the implant across the tear.



STEP 6b: In order to maintain column support for the implant and needle, the internal spring will keep the cannula tip against the meniscus surface during insertion. View the advancing implant through the window at the distal end of the cannula.



STEP 8a: To verify that the implant is fully seated, slightly pull back on the handle and the distal control knob.



STEP 8b: Leave the trocar needle inside the implant.



ORDERING INFORMATION

THE BIOSTINGER™ SYSTEM

HORNET INSERTERS (UNLOADED)

10mm (Red)	C8250
13mm (Purple)	C8260
16mm (Teal)	C8270

HORNET INSERTERS (IMPLANT PRELOADED)

10mm (Red)	C8350
13mm (Purple)	C8360
16mm (Teal)	C8370

Pending 510(K), Not Available for sale in the United States.

VIOLET IMPLANTS

10mm BioStinger Implant	V8210
13mm BioStinger Implant	V8213
16mm BioStinger Implant	V8216

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Specifications subject to change without notice.

