

BIOscrew® XTRALok®

TIBIAL FIXATION DEVICE

SURGICAL TECHNIQUE

BioScrew®

XtraLok™

TIBIAL FIXATION DEVICE

- PLLA
- Angled proximal face
- Expanded proximal end
- Extended lengths
- Stronger tri-lobe interface
- Violet color for improved visibility

 CONMED
LINVATEC

BIOCREW® XTRALOK® SURGI

TIBIAL ACL GRAFT FIXATION

The BioScrew XtraLok screw is intended for tibial interference fixation of soft tissue grafts in ACL and PCL reconstruction. The BioScrew XtraLok screw is made of PLLA and is available in eight sizes: 8, 9, 10, 11 mm diameters by 35mm and 40mm lengths. The screw features a 35 degree angled proximal face to allow flush placement with the anterior tibial cortex. The proximal end of the screw expands by 1mm in diameter to provide additional cortical fixation. Also, the screw is violet in color to provide greater visibility during insertion. A stronger tri-lobe interface was designed to meet the higher torque demands of the screw.

This technique was developed in conjunction with Dr. Hugh West, M.D.,
Intermountain Health Care Orthopedic Specialty Group, Salt Lake City, Utah

STEP 1

Standard femoral and tibial tunnels are created using the ConMed Linvatec GraFix® ACL System. The tibial tunnel is dilated using the Linvatec GraFix Dilator System. The soft tissue graft is prepared on the GraFix Graft Preparation Table. The graft is pulled into place and fixed in the femoral tunnel using a preferred method.

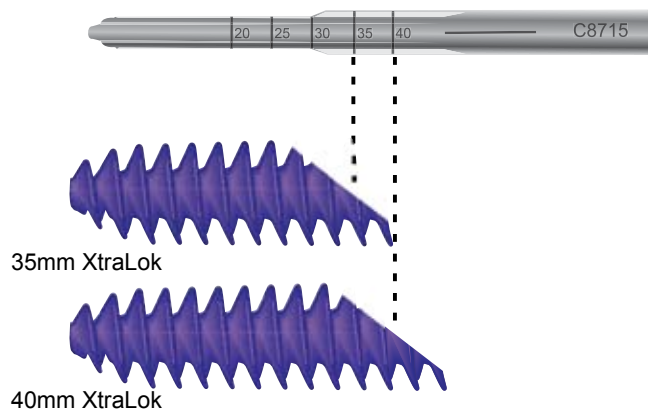
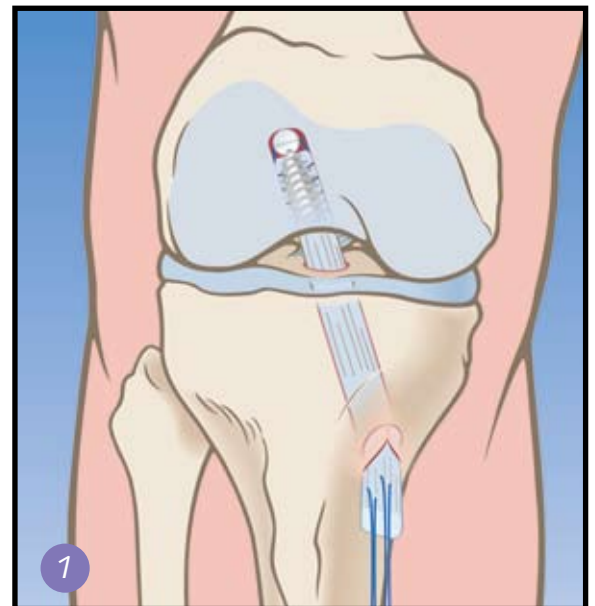
STEP 2A

Load the appropriately sized BioScrew XtraLok Screw onto the BioScrew Universal Driver (modular or fixed handle). The length of the screw must be equal to or less than the tibial tunnel length and *the screw diameter must be no greater than 2mm larger than the tunnel diameter.*

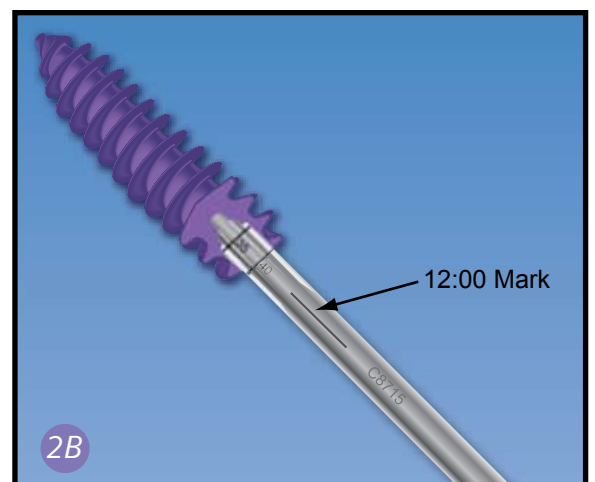
Note: The BioScrew XtraLok Screws can ONLY be used with the BioScrew Universal Drivers (C8715 or C8716).

STEP 2B

The BioScrew XtraLok Screw should align with the 12:00 mark on the Driver as shown.



2A



CAL TECHNIQUE

STEP 3

If desired, create a notch at the insertion site using the GraFix Tunnel Notcher. This will facilitate easier insertion of the BioScrew XtraLok Screw. This can be done before or after the graft is pulled into place.

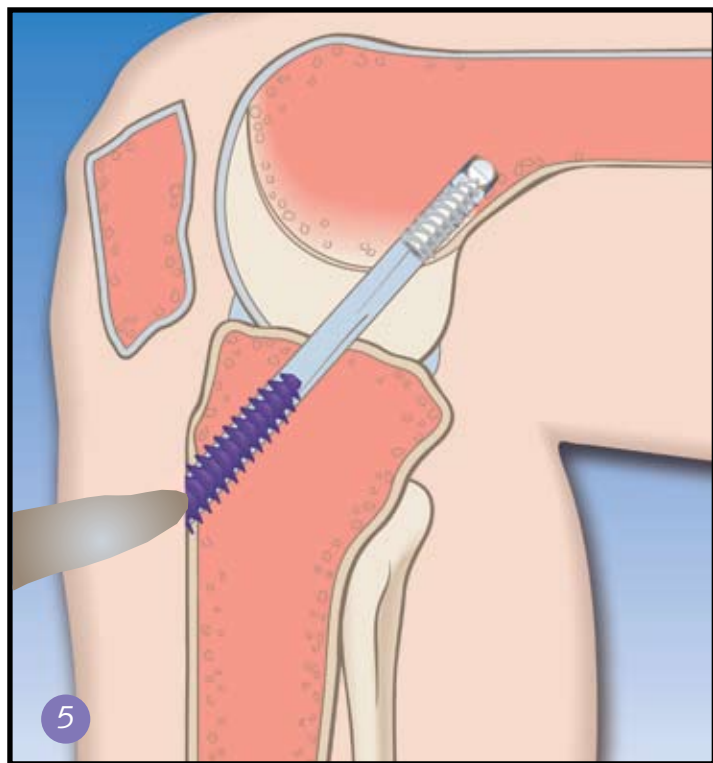
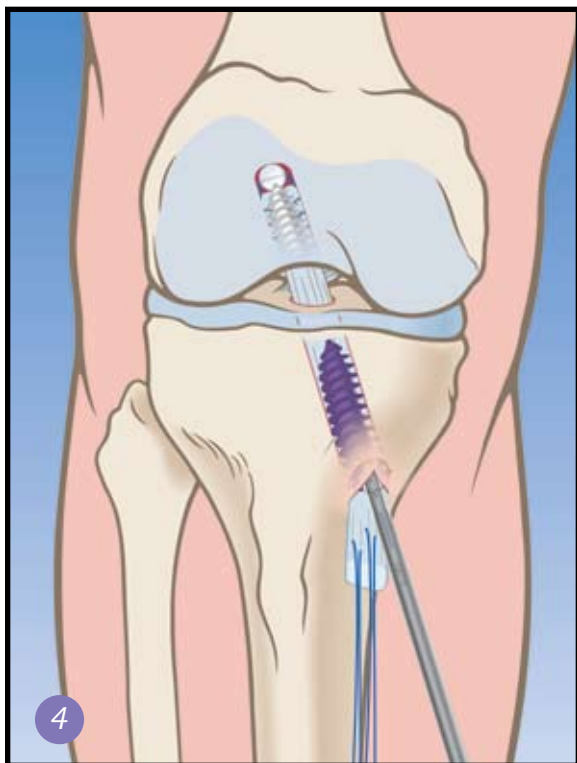
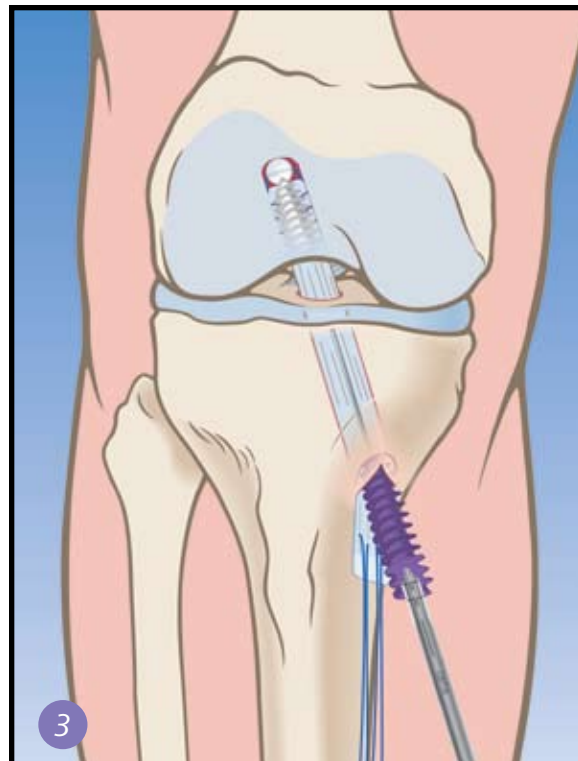
Place a 0.045 inch diameter BioScrew Guidewire in the tibial tunnel parallel to the graft bundle. Engage the BioScrew XtraLok Screw and Driver assembly and advance to the insertion site.

STEP 4

Place the knee in slight flexion according to surgeon preference. While applying tension to the graft, insert the BioScrew XtraLok Screw into the tibial tunnel, maintaining adequate axial force on the driver. Advance the BioScrew XtraLok Screw until the proximal face is **flush with the anterior cortical surface**. As an aid, the 12:00 mark should be oriented superiorly. For final Screw placement (i.e. flush with the tibial cortex), the etch mark is typically positioned between 11:00 and 1:00 due to variations in the shape and curvature of the tibia.

STEP 5

Ensure the BioScrew XtraLok Screw is flush by palpating the proximal face of the BioScrew XtraLok Screw at the insertion site. Disengage the Driver from the BioScrew XtraLok Screw and remove the guidewire.



PRODUCT INFORMATION

BioScrew® XtraLok® Tibial Fixation Device

U.S. Patent 6,953,463

8 mm x 35 mm	C8044
9 mm x 35 mm	C8027
10 mm x 35 mm	C8028
11 mm x 35 mm	C8029
8 mm x 40 mm	C8043
9 mm x 40 mm	C8040
10 mm x 40 mm	C8041
11 mm x 40 mm	C8042



Additional Instrumentation

BioScrew Universal Tri-Lobe Driver (Fixed Handle)	C8715
BioScrew Universal Driver, Modular	C8716
Ratcheting Handle	D8640
ACL Disposable Kit	8800
BioScrew Guide Wire, 14" x .045" dia. (5 per box) SST	C8016
BioScrew HyperFlex Guide Wire, 14" x .045" dia. (5 per box) Nitinol	C8026
GraFix® Tunnel Notcher	C8106



GraFix® Graft Preparation System

GraFix Graft Preparation System

Graft Preparation Table with Sizing Block	PS8820
Slide Lock	PS8821
Soft Tissue Graft Clamp	PS8822
Suture Holder Clamp	PS8823
Graft Tension Clamp	PS8824
EndoButton Holder Clamp	PS8825
Bone-Tendon-Bone Clamp	PS8826
Bone Block Drill Guide	PS8829
Scraping Board	PS8830
Sterilization Case	PS8831
Twist Drill with 2mm Stop	8733
Graft Sizing Block	PS8832



SE™ Graft Tensioning System

SE™ Graft Tensioning System

SE Graft Tensioner	C9050
SE Graft Tensioner Drill Guide, 6mm	C9051
SE Graft Tensioner Drill Guide, 8mm	C9052
SE Graft Tensioner Suture Separator	C9053
SE Graft Tensioner Breakaway Pins with Graft Tension Calculator	C9054
SE Graft Tensioner System Sterilization Tray	C9055

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