

## Targeter System for 4.5mm Lateral Proximal Tibia Locking Plate



# PERI-LOC<sup>◇</sup> Periarticular Locked Plating System

## Targeter System for 4.5mm Lateral Proximal Tibia Locking Plate

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### Nota Bene

The technique description herein is made available to the healthcare professional to illustrate the author's suggested treatment for the uncomplicated procedure. In the final analysis, the preferred treatment is that which addresses the needs of the specific patient.

# Product Overview

The PERI-LOC® Periarticular Locked Plating System from Smith & Nephew offers the advantages of locked plating with the flexibility and benefits of traditional plating in one system. Utilizing both locking and non-locking screws, PERI-LOC offers a construct that resists angular (e.g. varus/valgus) collapse while simultaneously acting as an effective aid to fracture reduction. A simple and straightforward instrument set features one screwdriver, standardized drill bits, and color-coded instrumentation, making PERI-LOC efficient and easy to use.

All PERI-LOC implants are manufactured using the highest quality 316L stainless steel for strength and durability.

The precontour of the 4.5mm Proximal Tibia Locking Plate provides an excellent fit against the surface of the bone.

Scallops at the proximal end of the plate allow easy placement of lag screws outside the plate for fixation of articular fractures.

Each screw hole in the 4.5mm Lateral Proximal Tibia Locking Plate will accept one of four different screws allowing customization of the screw configuration depending on the individual needs of the fracture:

- 4.5mm Self-Tapping Cortex Screw (Non-Locking)
- 4.5mm Locking Self-Tapping Cortex Screw
- 5.7mm Cannulated Locking Screw
- 6.5mm Partially Threaded Cancellous Screw

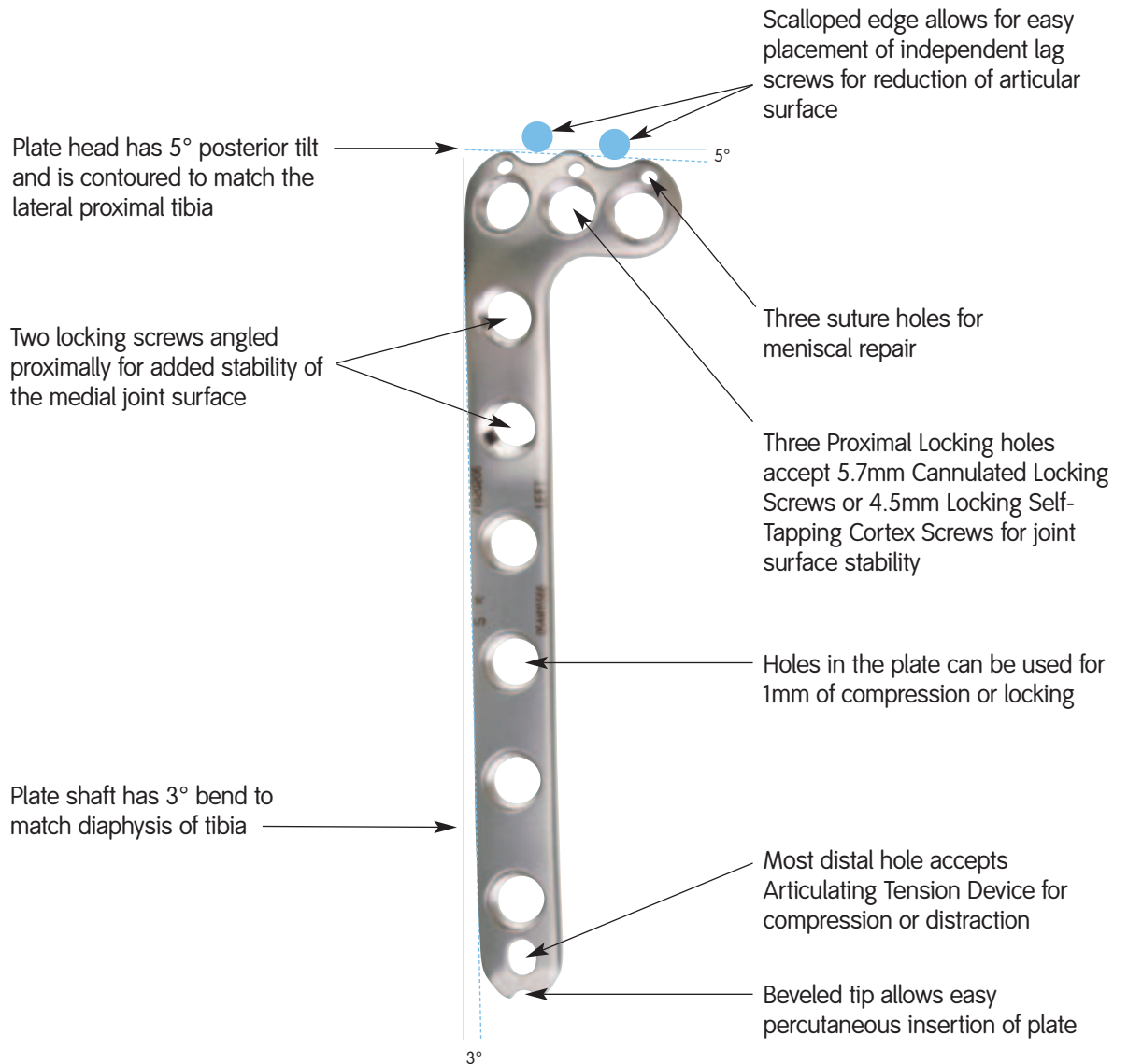


## Indications

The PERI-LOC Periarticular Locked Plating System can be used in adult and pediatric patients as well as patients with osteopenic bone. It is indicated for fixation of pelvic, small and long bone fractures, including those of the tibia, fibula, femur, pelvis, acetabulum, metacarpals, metatarsals, humerus, ulna, and calcaneus.

Disposable components in the PERI-LOC Periarticular Locked Plating System are for single use only.

# Design Features – 4.5mm Lateral Proximal Tibia Locking Plate



**Each of the holes can accept one of four different screws:**



4.5mm Self-Tapping Cortex Screw (Non-Locking)  
Cat. No. 7182-60XX



4.5mm Locking Self-Tapping Cortex Screw  
Cat. No. 7182-70XX



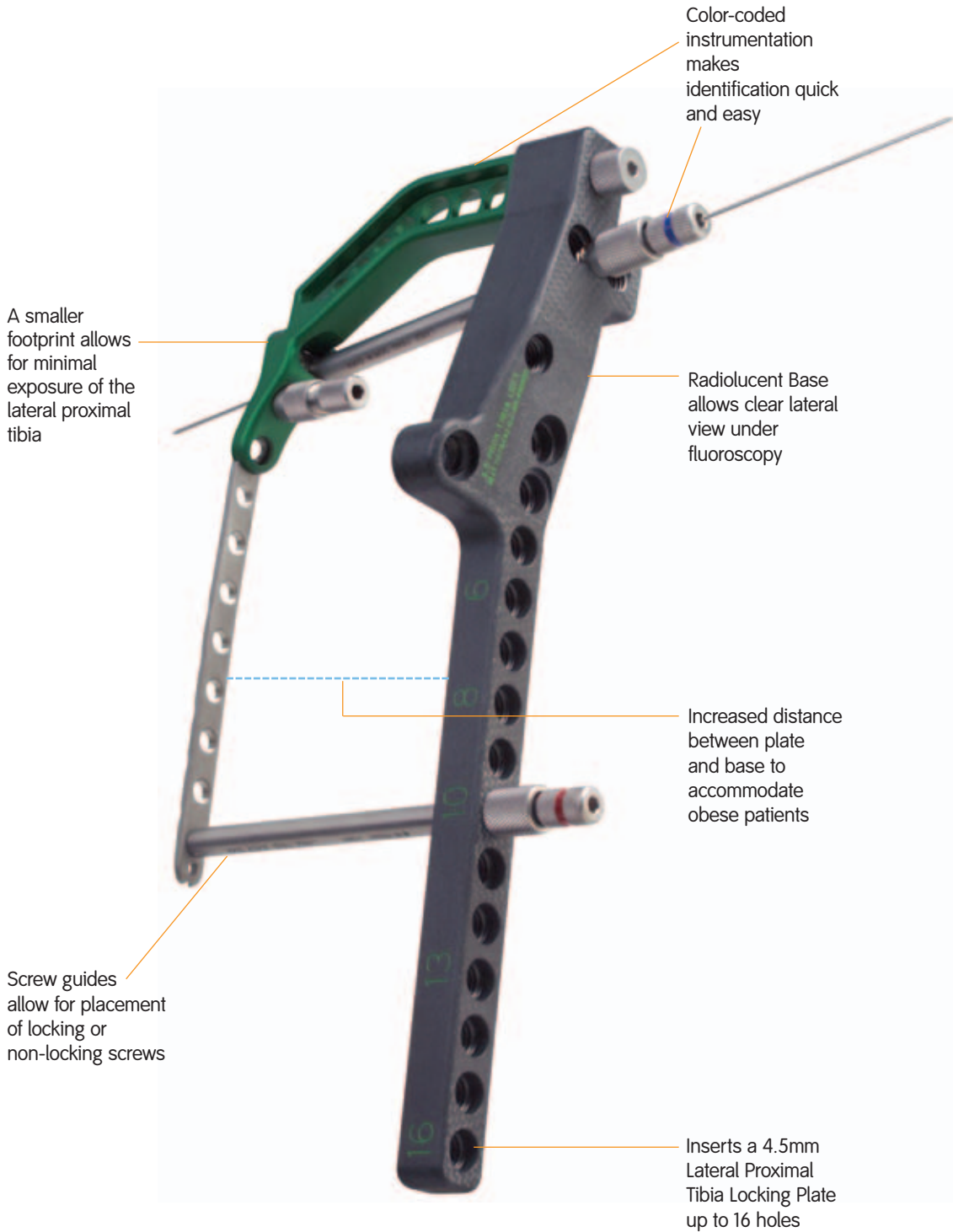
5.7mm Cannulated Locking Screw  
Cat. No. 7182-80XX



6.5mm Partially Threaded Cancellous Screw  
Cat. No. 7182-81XX

All screws use 3.5mm Hexdriver.

# Design Features – Targeter



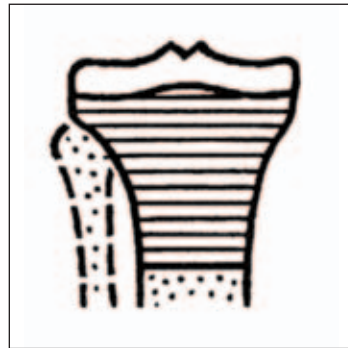
# Patient Positioning

Place the patient in a supine position on a radiolucent table. Confirm that an unhindered lateral and AP view under fluoroscopy can be obtained.

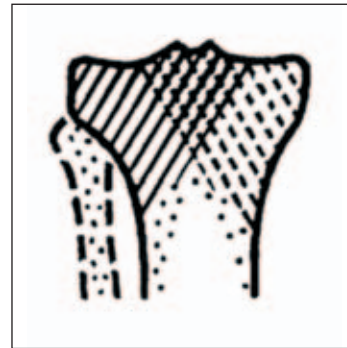
Obtain gross metaphyseal alignment using manual traction or skeletal distraction.

## Incision

The lateral S incision is recommended for the following fracture classifications:



A. Extra-articular (41-A)



B. Partial articular (41-B)

OTA Fracture Classification courtesy of the Orthopaedic Trauma Association. For more information go to [www.ota.org](http://www.ota.org)



The straight anterolateral incision is recommended for the following fracture classification.

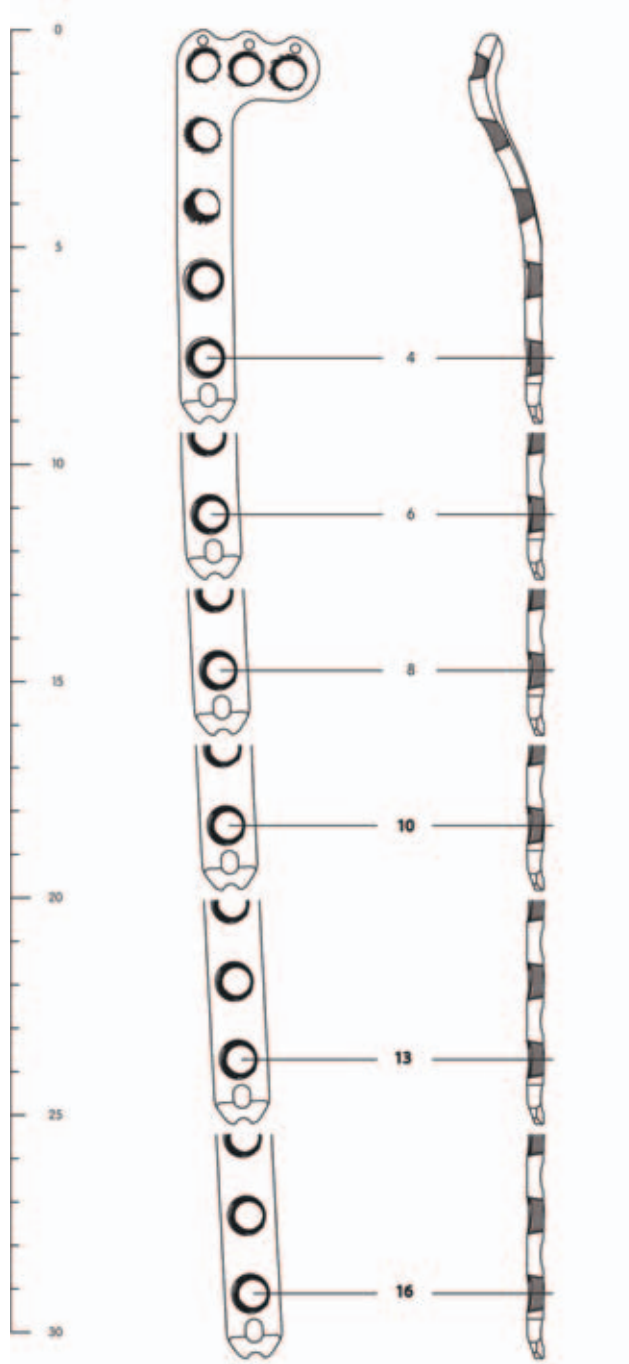


C. Complete articular (41-C)

# Targeter System for 4.5mm Lateral Proximal Tibia Locking Plate – Surgical Technique

## Plate Selection

Using the PERI-LOC® 4.5mm Proximal Tibia Plating Preoperative Template, determine the appropriate length plate for the fracture. In general, a longer plate allows for better mechanical advantage over a shorter plate. An allowance for five screw holes below the most distal aspect of the fracture is recommended when selecting plate length.

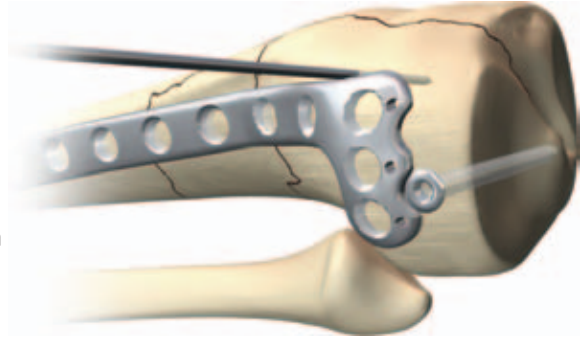


PERI-LOC 4.5mm Proximal Tibia Locking Plate  
Preoperative Template

Cat. No. 7118-0916

## Articular Reduction and Provisional Fixation

It is important that articular fracture reduction be obtained prior to placement of locking screws. Temporarily secure articular fragments by using K-Wires and/or Reduction Forceps. Confirm reduction of the articular surface and place definitive fixation outside the plate if necessary.



## Plate and Targeter Assembly

Assemble the Targeter Base, Handle and Plate on the back table as shown.



3.5mm Self-Tapping  
Cortex Screw  
(Non-Locking)  
Cat. No. 7182-40XX



4.5mm Self-Tapping  
Cortex Screw  
(Non-Locking)  
Cat. No. 7182-60XX



Large Fragment  
Countersink  
Cat. No. 7117-3353



Targeter Base  
Cat. No. 7117-3442  
(Left)  
Cat. No. 7117-3443  
(Right)



Targeter Handle  
Cat. No. 7117-3414  
(Left)  
Cat. No. 7117-3415  
(Right)



Targeter Large  
Fragment Locking  
Post Assembly  
Cat. No. 7117-3398



## Plate Insertion

Insert the plate between the muscle and periosteum keeping the distal end of the plate against the tibia during insertion.



## Plate Positioning

Position the PERI-LOC<sup>®</sup> 4.5mm Proximal Tibia Locking Plate by matching the contour of the plate to the proximal portion of the lateral tibia. Insert the screw guide with the red color-coded 3.5mm drill guide into one of the proximal holes. Tighten the screw guide to the base and tighten the red drill guide to the plate. Insert a long (metaphyseal) Provisional Fixation (PF) pin through the drill guide. Be careful not to over tighten the PF pin as extreme torque may cause the threads to strip.



4.5mm Lateral Proximal Tibia Locking Plate, 10H Left 201mm  
Cat. No. 7182-0210



Targeter 3.5mm Drill Guide  
Cat. No. 7117-3382

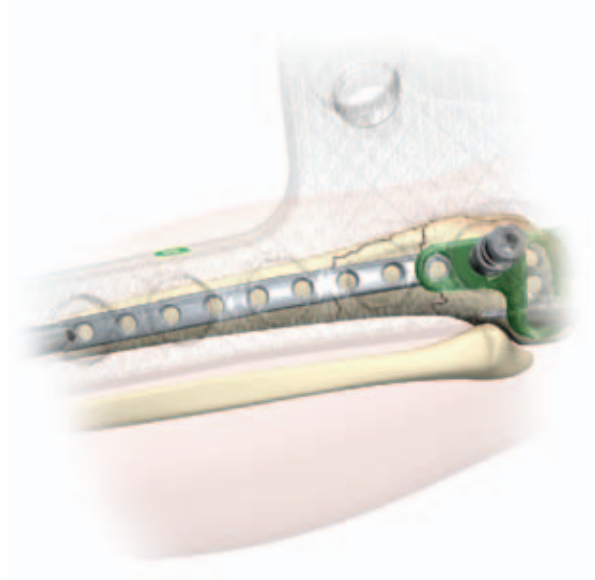


Targeter Provisional Fixation Pin, 40mm  
Cat. No. 7117-3408



Targeter Large Fragment Screw Guide  
Cat.No. 7117-3397

Obtain sagittal alignment of fracture and confirm with a lateral radiograph. When a sagittal split is present, reduction can be obtained with either clamps or lag screws, outside or through the plate. Insert all necessary lag screws prior to placement of locking screws.



This drawing illustrates the radiolucency of the PERI-LOC® Targeter

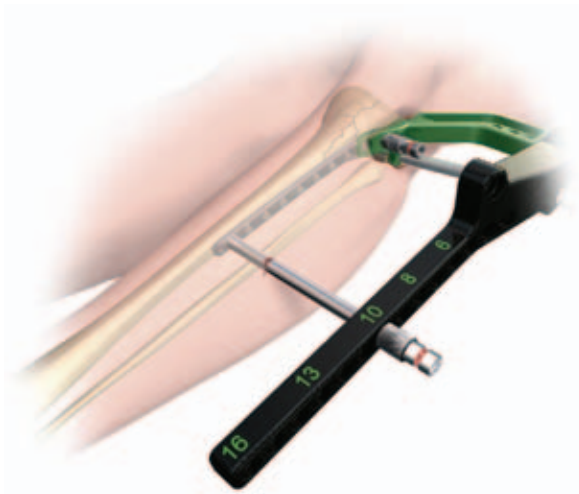
To access the distal hole, insert the screw guide with a trocar through a small stab incision until the screw guide reaches the plate and locks into the base.



Targeter Large  
Fragment Screw  
Guide  
Cat.No. 7117-3397

Targeter Large  
Fragment Trocar  
Cat.No. 7117-3404

Remove the trocar and insert a red drill guide, threading it into the plate.



Center the plate on the lateral aspect of the tibia and insert a short (diaphyseal) PF pin in the most distal hole.

If further reduction of the proximal portion of the diaphyseal fragment is required, center the plate on the proximal diaphyseal fragment and provisionally fix the plate close to the fracture by repeating the previous step. Obtain final confirmation of fracture alignment and implant position.



Targeter 3.5mm  
Drill Guide  
Cat. No. 7117-3382



Targeter 3.5mm  
Provisional Fixation  
Pin, 18mm  
Cat.No. 7117-3416

Insert the Screw Guide through any of the proximal holes securing it to the base. Insert the 2.0mm K-Wire Locking Guide Insert (blue) which accepts the 2.0mm K-Wire (guide wire). This K-Wire can be redirected if necessary until it is parallel to the joint in the AP view. Loosening of the PF pins may be necessary to redirect the K-Wire parallel to the joint.

For correct coronal alignment, the K-Wire (guide wire) must be parallel to the joint in the AP view.



Advance the K-Wire until it reaches the medial wall of the proximal tibia. Measure for screw length by placing the 5.7mm Cannulated Depth Gauge against the end of the 2.0mm K-Wire Locking Guide Insert for proper measurement.



Targeter Large  
Fragment K-Wire  
Guide  
Cat.No. 7117-3384



Targeter K-Wire  
2.0mm x 350mm  
Cat.No. 7117-3381



5.7mm Cannulated  
Depth Gauge  
Cat.No. 7117-3332



Targeter 3.5mm  
Drill Guide  
Cat. No. 7117-3382

## Screw Insertion

Remove the 2.0mm K-Wire Locking Guide Insert and implant the appropriate length 5.7mm Cannulated Locking Screw over the K-Wire and into the bone using the 3.5mm Cannulated Hexdriver Shaft.

Note: The 5.7mm Cannulated Screws are self-drilling and self-tapping, making predrilling unnecessary in most cases. However, if predrilling is necessary, drill the near cortex using the 4.5mm Cannulated Drill Bit with Quick Connect.



The remaining proximal screws can be either 5.7mm Cannulated Locking Screws or 4.5mm Locking Self-Tapping Cortex Screws. To implant 4.5mm Locking Self-Tapping Cortex Screws, predrill with the 3.5mm Drill Bit with Quick Connect through the 4.5mm/5.7mm Locking Screw Guide and 3.5mm Locking Drill Guide Insert (red), stopping short of the medial cortex.



5.7mm Cannulated  
Locking Screw  
Cat. No. 7182-80XX

Targeter 3.5mm  
Large Fragment  
Cannulated  
Hexdriver  
Cat.No. 7117-3434

Targeter 3.5mm  
Drill Bit  
Cat.No. 7117-3402

Targeter 3.5mm  
Drill Guide  
Cat. No. 7117-3382

The proximal PF pin should remain until all other proximal screws have been implanted to keep the base-to-plate alignment secure. After all other proximal screws have been inserted, remove the PF pin and replace with either a 5.7mm cannulated locking screw or a 4.5mm locking screw using the steps previously described.

Note: Locking screws can be inserted using a powered drill system but should be tightened by hand. Tightening screws with a powered drill system may cause loss of reduction or expose the screw heads to excess torque.

Proceed with definitive fixation of the shaft and the proximal fragments with appropriate screw selections. If a combination of non-locking screws and locking screws is necessary, insert the non-locking cortex screws before locking screws are inserted in each fragment.

Pre-drill for the 4.5mm self-tapping cortex screws (non-locking) using the 3.5mm (red) Drill Bit through the 3.5mm (red) drill guide. Measure for length using the calibrations on the 3.5mm Drill Bit.



Targeter Large  
Fragment Hexdriver  
Shaft  
Cat.No. 7117-3409

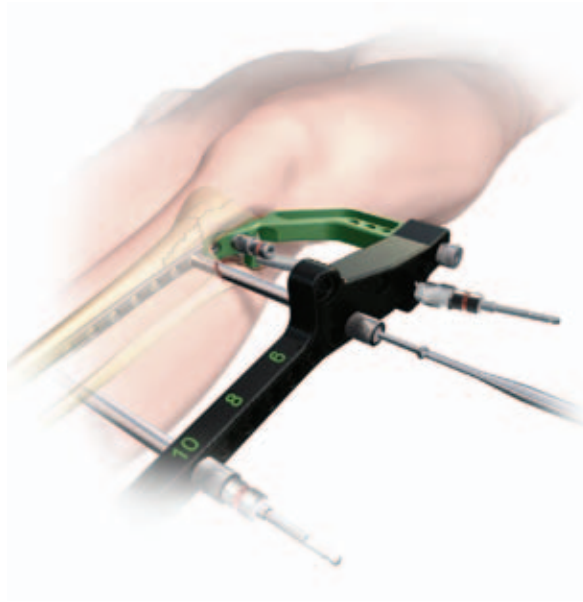


Targeter 3.5mm  
Drill Guide  
Cat. No. 7117-3382

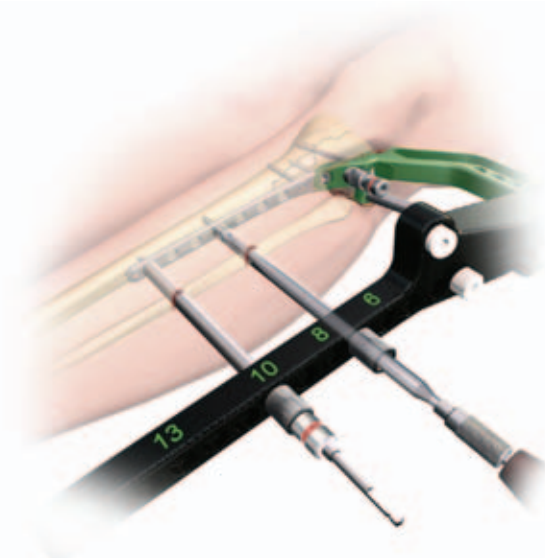


Targeter 3.5mm  
Drill Bit  
Cat.No. 7117-3402

Insert the appropriate length 4.5mm Self-Tapping Cortex Screw (non-locking) using the 3.5mm Hexdriver.



After any/all non-locking screws have been inserted, insert 4.5mm locking screws using the same steps outlined in the previous step. Again, drill using the 3.5mm Drill Bit and read measurement from the Drill Bit. Insert the appropriate length 4.5mm Locking Self-Tapping Cortex Screw using the 3.5mm Hexdriver.

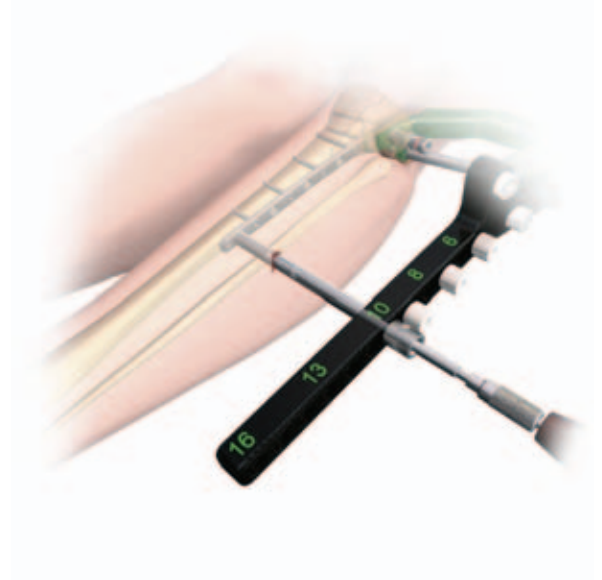


4.5mm Locking Self-Tapping Cortex Screw (non-locking)  
Cat. No. 7182-60XX

Targeter Large Fragment Hexdriver Shaft  
Cat.No. 7117-3409

4.5mm Locking Self-Tapping Cortex Screws  
Cat. No. 7182-70XX

The distal hole with the PF pin should be the last to be filled in the distal fragment. Remove the PF pin and replace with a 4.5mm locking screw by first pre-drilling with the 3.5mm drill bit.



Remove the handle and base from the plate by unscrewing the Locking Post Assembly. Insert either a 4.5mm locking screw or a 5.7mm cannulated locking screw by threading either the blue 2.0mm wire guide or the red 3.5mm drill guide into that hole and follow the previous steps for inserting the final screw.

Make sure all screws are tight before closing the wound.

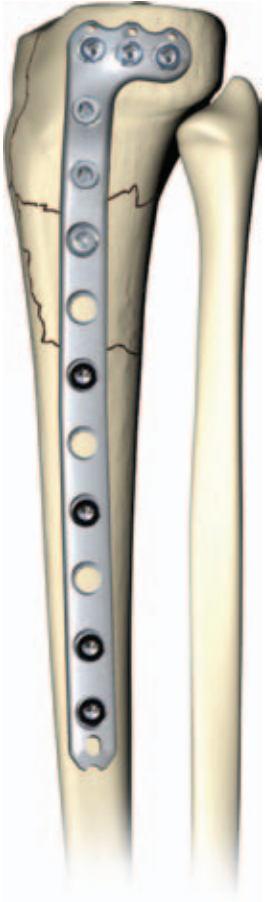


Targeter 3.5mm  
Drill Bit  
Cat.No. 7117-3402

Targeter Large  
Fragment Hexdriver  
Shaft  
Cat.No. 7117-3409

Large Fragment  
Screwdriver Handle  
Cat.No. 7117-3547





Final lateral view



Final AP view

# Catalog Information – Large Fragment Plates

## 4.5mm Lateral Proximal Tibia Locking Plates

Cat. No.	Length	Quantity in Set
7182-0204	4H Left 94mm	1
7182-0206	6H Left 130mm	1
7182-0208	8H Left 165mm	1
7182-0210	10H Left 201mm	1
7182-0213*	13H Left 255mm	0 (optional)
7180-0216*	16H Left 309mm	0
7182-0304	4H Right 94mm	1
7182-0306	6H Right 130mm	1
7182-0308	8H Right 165mm	1
7182-0310	10H Right 201mm	1
7182-0313*	13H Right 255mm	0 (optional)
7180-0316*	16H Right 309mm	0

\*Packaged sterile

## Small Outer Case – 2.4”

Cat. No. 7112-9401

## Lid for Outer Cases

Cat. No. 7112-9402

## Plate Tray

Cat. No. 7117-0320



# Catalog Information – Large Fragment System Screws

## Large Fragment System 4.5mm Self-Tapping Cortex Screws (Non-Locking)



Cat. No.	Length	Quantity in Set
7182-6014	14mm	4
7182-6016	16mm	4
7182-6018	18mm	4
7182-6020	20mm	6
7182-6022	22mm	6
7182-6024	24mm	6
7182-6026	26mm	6
7182-6028	28mm	6
7182-6030	30mm	10
7182-6032	32mm	10
7182-6034	34mm	10
7182-6036	36mm	10
7182-6038	38mm	10
7182-6040	40mm	10
7182-6042	42mm	6
7182-6044	44mm	4
7182-6046	46mm	4
7182-6048	48mm	4
7182-6050	50mm	4
7182-6052	52mm	4
7182-6054	54mm	4
7182-6056	56mm	4
7182-6058	58mm	4
7182-6060	60mm	4
7182-6062	62mm	4
7182-6064	64mm	4
7182-6066	66mm	4
7182-6068	68mm	4
7182-6070	70mm	4
7182-6072	72mm	4
7182-6074	74mm	4
7182-6076	76mm	4
7182-6078	78mm	4
7182-6080	80mm	4
7182-6085	85mm	4
7182-6090	90mm	2
7182-6095	95mm	2
7182-6100	100mm	2
7180-6105*	105mm	0
7180-6110*	110mm	0
7180-6115*	115mm	0
7180-6120*	120mm	0
7180-6125*	125mm	0
7180-6130*	130mm	0

\*Packaged sterile

## Large Fragment System 4.5mm Locking Self-Tapping Cortex Screws



Cat. No.	Length	Quantity in Set
7182-7010	10mm (Blunt Tip)	4
7182-7012	12mm (Blunt Tip)	4
7182-7014	14mm	4
7182-7016	16mm	4
7182-7018	18mm	4
7182-7020	20mm	6
7182-7022	22mm	6
7182-7024	24mm	6
7182-7026	26mm	6
7182-7028	28mm	6
7182-7030	30mm	10
7182-7032	32mm	10
7182-7034	34mm	10
7182-7036	36mm	10
7182-7038	38mm	10
7182-7040	40mm	10
7182-7042	42mm	6
7182-7044	44mm	4
7182-7046	46mm	4
7182-7048	48mm	4
7182-7050	50mm	4
7182-7052	52mm	4
7182-7054	54mm	4
7182-7056	56mm	4
7182-7058	58mm	4
7182-7060	60mm	4
7182-7062	62mm	4
7182-7064	64mm	4
7182-7066	66mm	4
7182-7068	68mm	4
7182-7070	70mm	4
7182-7072	72mm	4
7182-7074	74mm	4
7182-7076	76mm	4
7182-7078	78mm	4
7182-7080	80mm	4
7182-7085	85mm	4
7182-7090	90mm	2
7182-7095	95mm	2
7182-7100	100mm	2
7180-7105*	105mm	0
7180-7110*	110mm	0
7180-7115*	115mm	0
7180-7120*	120mm	0
7180-7125*	125mm	0
7180-7130*	130mm	0

\*Packaged sterile

## Large Fragment System 5.7mm Cannulated Locking Screws



Cat. No.	Length	Quantity in Set
7182-8020	20mm	3
7182-8025	25mm	3
7182-8030	30mm	3
7182-8035	35mm	3
7182-8040	40mm	3
7182-8045	45mm	3
7182-8050	50mm	3
7182-8055	55mm	5
7182-8060	60mm	5
7182-8065	65mm	5
7182-8070	70mm	5
7182-8075	75mm	5
7182-8080	80mm	5
7182-8085	85mm	3
7182-8090	90mm	3
7182-8095	95mm	3
7182-8100	100mm	3
7180-8105*	105mm	0
7180-8110*	110mm	0
7180-8115*	115mm	0
7180-8120*	120mm	0

\*Packaged sterile

## 6.5mm Partially Threaded Cancellous Screws



Cat. No.	Length	Quantity in Set
7182-8150	50mm	4
7182-8155	55mm	4
7182-8160	60mm	4
7182-8165	65mm	4
7182-8170	70mm	4
7182-8175	75mm	4
7182-8180	80mm	4
7182-8185	85mm	4
7182-8190	90mm	4
7182-8195	95mm	4
7182-8200	100mm	4
7180-8205*	105mm	0
7180-8210*	110mm	0

\*Packaged sterile

## Washers



Cat. No.	Length	Quantity in Set
7114-3110	10mm O.D.	6
7114-3113	13mm O.D.	6

# Catalog Information – Targeter System for 4.5mm Lateral Proximal Tibia Locking Plate Instruments

Small Outer Case – 2.4”

Cat. No. 7112-9401

Lid for Outer Cases

Cat. No. 7112-9402

4.5mm Lateral Distal Femur Targeter Tray

Cat.No. 7117-0321

Targeter 3.5mm Drill Guide

Cat.No. 7117-3382



Targeter 4.5mm Drill Guide

Cat.No. 7117-3383



Targeter Large Fragment K-Wire Guide

Cat.No. 7117-3384



Targeter Large Fragment Screw Guide

Cat.No. 7117-3397



Targeter Large Fragment Locking Post Assembly

Cat.No. 7117-3398



Targeter 4.5mm Lateral Proximal Tibia Handle, Left

Cat.No. 7117-3414



Targeter 4.5mm Lateral Proximal Tibia Handle, Right

Cat.No. 7117-3415



Targeter Large Fragment Trocar

Cat.No. 7117-3404



Targeter Large Fragment Hexdriver Shaft

Cat.No. 7117-3409



Targeter 4.7mm Hexdriver

Cat.No. 7117-3410



Targeter 3.5mm Large Fragment Cannulated Hexdriver

Cat.No. 7117-3434



Targeter 4.5mm Lateral Proximal Tibia 19-Hole Base, Left

Cat.No. 7117-3442



Targeter 4.5mm Lateral Proximal Tibia 19-Hole Base, Right

Cat.No. 7117-3443



**5.7mm Cannulated Depth Gauge**

Cat.No. 7117-3332



**Large Fragment Screwdriver Handle**

Cat.No. 7117-3547



## Catalog Information – Targeter System for 4.5mm Lateral Proximal Tibia Locking Plate Disposables

**Targeter K-Wire 2.0mm x 350mm**

Cat.No. 7117-3381



**Targeter 3.5mm Drill Bit**

Cat.No. 7117-3402



**Targeter 4.5mm Drill Bit**

Cat.No. 7117-3403



**Targeter 3.5mm Provisional Fixation Pin, 40mm**

Cat.No. 7117-3408



**Targeter 3.5mm Provisional Fixation Pin, 18mm**

Cat.No. 7117-3416



**Targeter LF Base Plug**

Cat.No. 7117-3436



**Targeter Large Fragment 4.5mm Cannulated Drill**

Cat.No. 7117-3444



# Catalog Information – Large Fragment System Instruments

## Sharp Hook

Cat. No. 7117-0043



## Wire Bending Pliers, 140mm Length

Cat. No. 7117-0063



## Large Fragment Screw Depth Gauge

Cat.No. 7117-3331



## 5.7mm Cannulated Depth Gauge

Cat.No. 7117-3526



## Large Fragment Countersink

Cat.No. 7117-3353



## Universal Plate Bending Irons

Cat.No. 7117-3367



## Hohmann Retractor Long, 15mm Width

Cat.No. 7117-3393



## Universal Drill Guide Handle

Cat.No. 7117-3349



## 2.0mm Wire/Drill Insert

Cat.No. 7117-3517



## 3.5mm Drill Guide Insert

Cat.No. 7117-3513



## 2.0mm Parallel Wire/Drill Guide

Cat.No. 7117-3516



## 4.5mm Drill Guide Insert

Cat.No. 7117-3520



## 3.5mm Neutral Locking Hole Insert

Cat.No. 7117-3521



## 3.5mm Compression Locking Hole Insert

Cat.No. 7117-3522



## 3.5mm Neutral Slot Insert

Cat.No. 7117-3519



## 3.5mm Compression Slot Insert

Cat.No. 7117-3518



## 4.7mm Hexdriver

Cat.No. 7117-3540





**Cannulated Bending Irons for K-Wires**  
Cat.No. 7117-3527



**Cannulated AO to Trinkle Adaptor**  
Cat.No. 7117-3528



**4.5/5.7mm Locking Screw Guide**  
Cat.No. 7117-3539



**2.0mm K-Wire Locking Guide Insert**  
Cat.No. 7117-3531



**3.5mm Locking Drill Guide Insert**  
Cat.No. 7117-3530



**4.5mm Locking Drill Guide Insert**  
Cat.No. 7117-3532



**3.5mm Locking Drill Guide – One Piece**  
Optional  
Cat. No. 7117-3451



**4.5mm Locking Drill Guide – One Piece**  
Optional  
Cat. No. 7117-3541



**Large Fragment Guide Removal Assembly**  
Cat.No. 7117-3550



**Large Screwdriver Handle**  
Cat.No. 7117-3547



**Tear Drop Handle Screwdriver with Quick Connect**  
Cat.No. 7117-3543



**Small T-Handle, Quick Coupling**  
Cat.No. 7117-3542



**3.5mm Hexdriver Shaft  
with AO Quick Connect**  
Cat.No. 7117-3537



**3.5mm Cannulated Hexdriver Shaft**  
Cat.No. 7117-3536



# Catalog Information – Large Fragment System Forceps Tray Instruments

## Self Centering Reverse Verbrugge

Cat. No.	Description
7117-3544	190mm
7117-3545	240mm
7117-3546	280mm



## Reduction Forceps with Ratchet, 205mm

Cat. No. 7117-0044



## Reduction Forceps with Speed Knob, 240mm

Cat. No. 7117-0050



## Socket Wrench with Universal Joint

Cat. No. 7117-0143



## Articulated Tension Device with Gauge

Cat. No. 7117-0145



## Lamina Spreader

Cat. No. 7117-3365



## Reduction Forceps with Ratchet-Bowed, 205mm

Cat. No. 7117-3370



## Reduction Forceps with Ratchet, 240mm

Cat. No. 7117-3371



## Reduction Forceps with Points, Broad

Cat. No. 7117-3377



## Reduction Forceps with Serrated Jaw

Cat. No. 7117-3378



# Catalog Information – Large Fragment System Trays

## PERI-LOC<sup>®</sup> Large Fragment Instrument Tray

Cat.No. 7117-0327

## Small Outer Case – 2.4”

Cat. No. 7112-9401

## Lid for Outer Cases

Cat. No. 7112-9402

## PERI-LOC Forceps Tray

Cat. No. 7117-0326

# Catalog Information – Large Fragment System Disposables

## K-Wires with Trocar Point and Threaded Pins

Cat. No.	Description	Quantity in Set
7116-1020	2.0mm x 150mm	6
7117-3361	2.0mm x 228mm	6



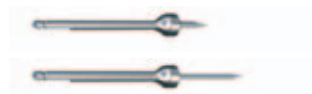
## Taps with Quick Connect

Cat. No.	Description	Quantity in Set
7117-3319	4.5mm	2
7117-3509	6.5mm Cancellous	2



## Provisional Fixation Pins

Cat. No.	Description	Quantity in Set
7117-3324	3.5mm x 18mm	4
7117-3325	3.5mm x 40mm	4



## Drill Bits with Quick Connect

Cat. No.	Description	Quantity in Set
7117-3504	3.5mm Short	2
7117-3505	3.5mm	2
7117-3506	4.5mm	2
7117-3507	4.5mm Short	2
7117-3508	4.5mm Cannulated	2



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