

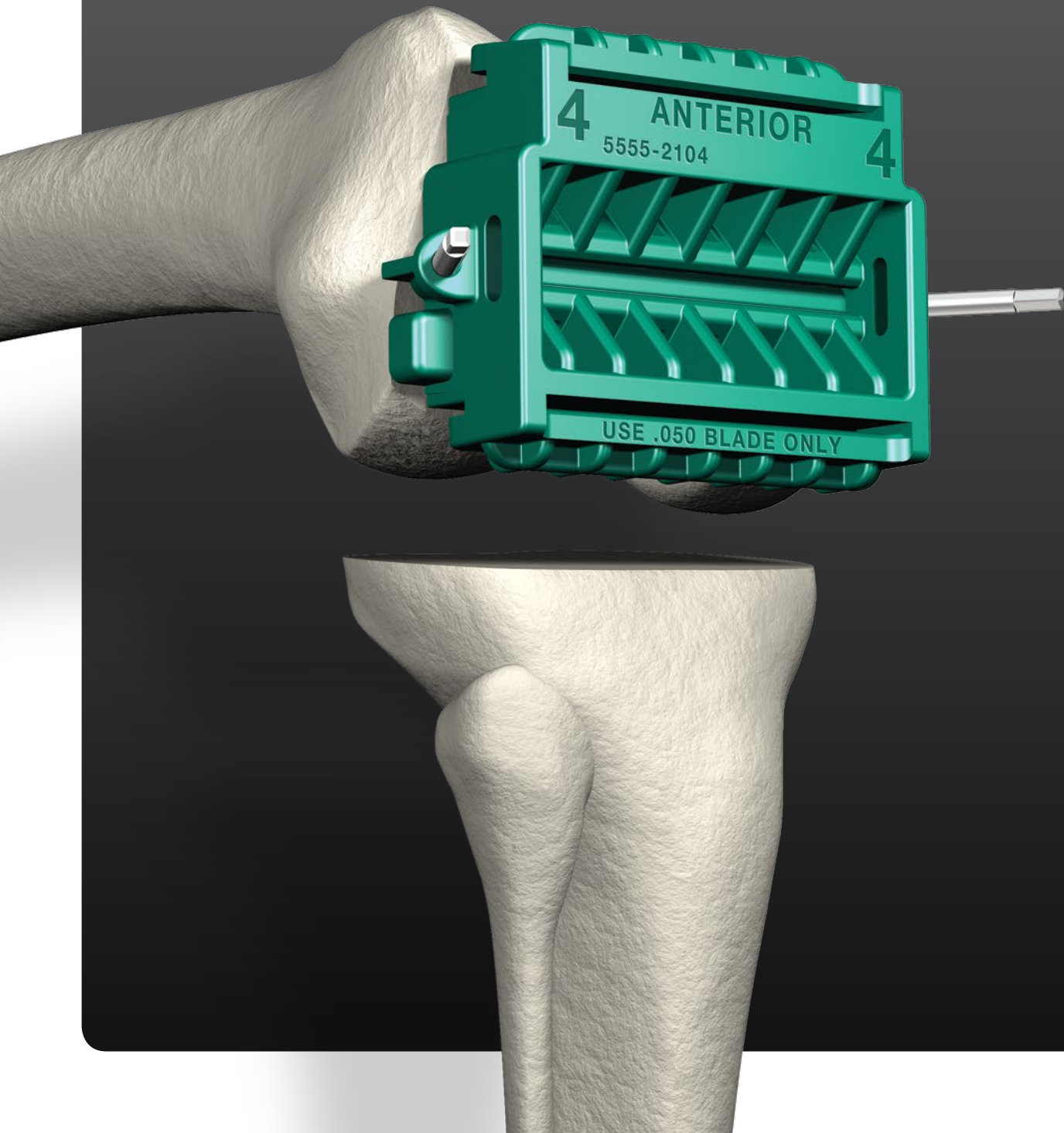
# TRIATHLON<sup>®</sup>

Single-Use Instruments

stryker<sup>®</sup>

Orthopaedics

## Surgical Protocol





# Triathlon® Knee System

## Single-Use Instruments Surgical Protocol

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# Triathlon® Knee System

## Single-Use Instruments Surgical Protocol

### *Indications*

#### **General Total Knee Arthroplasty (TKA) Indications include:**

- Painful, disabling joint disease of the knee resulting from: noninflammatory degenerative joint disease (including osteoarthritis, traumatic arthritis, or avascular necrosis), rheumatoid arthritis or post-traumatic arthritis.
- Post-traumatic loss of knee joint configuration and function.
- Moderate varus, valgus, or flexion deformity in which the ligamentous structures can be returned to adequate function and stability.
- Revision of previous unsuccessful knee replacement or other procedure.
- Fracture of the distal femur and/or proximal tibia that cannot be stabilized by standard fracture management techniques.

#### ***Additional Indications for Posterior Stabilized (PS) Components:***

- Ligamentous instability requiring implant bearing surface geometries with increased constraint.
- Absent or non-functioning posterior cruciate ligament.
- Severe anteroposterior instability of the knee joint.

The Triathlon Total Knee System beaded and beaded with Peri-Apatite components are intended for uncemented use only.

The Triathlon Tritanium Tibial Baseplate and Tritanium Metal-Backed Patella components are indicated for both uncemented and cemented use.

The Triathlon All-Polyethylene tibial components are indicated for cemented use only.



### ***Contraindications***

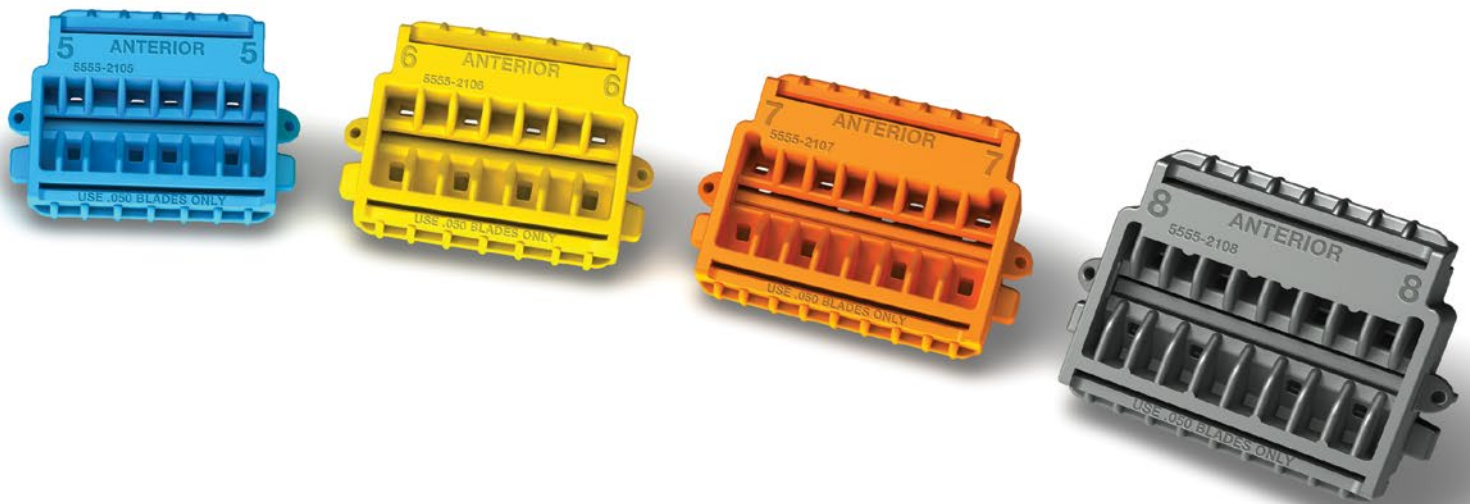
- Any active or suspected latent infection in or about the knee joint.
- Distant foci of infection which may cause hematogenous spread to the implant site.
- Any mental or neuromuscular disorder which would create an unacceptable risk of prosthesis instability, prosthesis fixation failure, or complications in postoperative care.
- Bone stock compromised by disease, infection or prior implantation which cannot provide adequate support and/or fixation to the prosthesis.
- Skeletal immaturity.
- Severe instability of the knee joint secondary to the absence of collateral ligament integrity and function.

The Triathlon Single-Use Instruments are intended for use in a single Total Knee Arthroplasty.

See package insert for warnings, precautions, adverse effects and other essential product information.

### ***Patient Counseling***

Surgeons should discuss all relevant contraindications, adverse effects and the need for post-implantation protection with their patients.



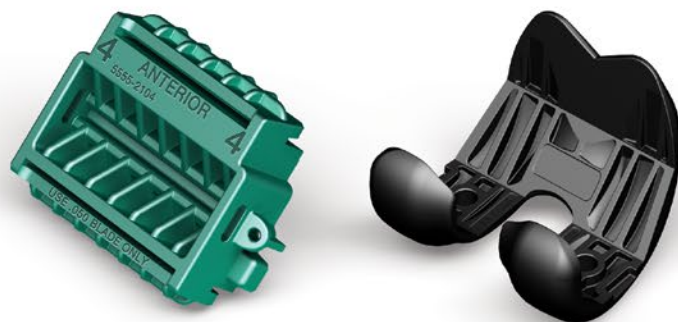
# Triathlon® Knee System

## Single-Use Instruments Surgical Protocol

### CR Femoral

#### Triathlon CR Single-Use Femoral Prep Kit

<i>Part Numbers</i>	<i>Size</i>
5555-2201	1
5555-2202	2
5555-2203	3
5555-2204	4
5555-2205	5
5555-2206	6
5555-2207	7
5555-2208	8



### CR Tibial

#### Triathlon CR Single-Use Tibial Prep Kit

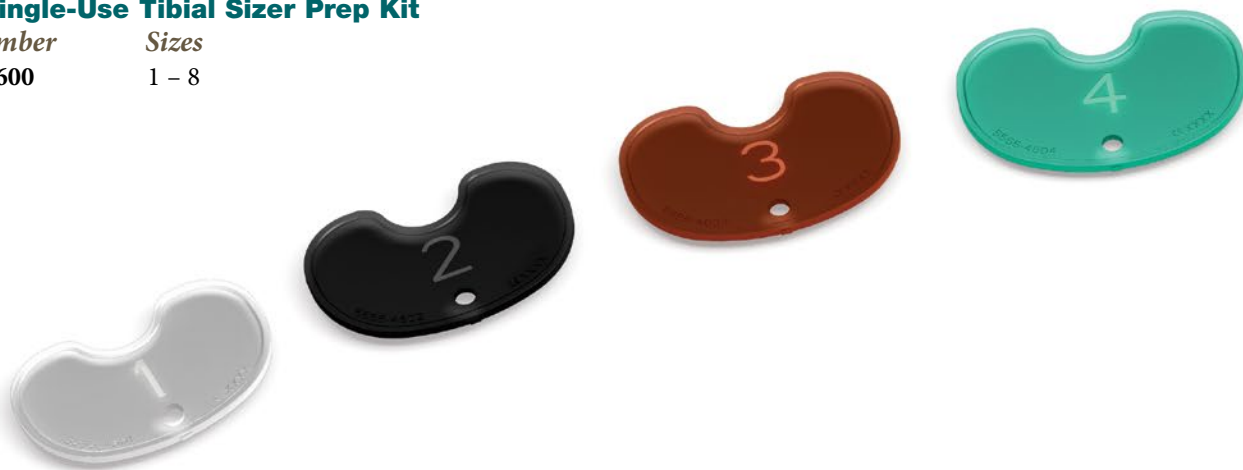
<i>Part Numbers</i>	<i>Size</i>
5555-2321	1
5555-2322	2
5555-2323	3
5555-2324	4
5555-2325	5
5555-2326	6
5555-2327	7
5555-2328	8



### Tibial Sizers

#### Triathlon Single-Use Tibial Sizer Prep Kit

<i>Part Number</i>	<i>Sizes</i>
5555-4600	1 – 8





## PS Femoral

### Triathlon PS Single-Use Femoral Prep Kit



<i>Part Numbers</i>	<i>Size</i>
5555-2251	1
5555-2252	2
5555-2253	3
5555-2254	4
5555-2255	5
5555-2256	6
5555-2257	7
5555-2258	8

## PS Tibial

### Triathlon PS Single-Use Tibial Prep Kit



<i>Part Numbers</i>	<i>Size</i>
5555-2361	1
5555-2362	2
5555-2363	3
5555-2364	4
5555-2365	5
5555-2366	6
5555-2367	7
5555-2368	8

## Tibial Sizers

### Triathlon Single-Use Tibial Sizer Prep Kit



<i>Part Number</i>	<i>Sizes</i>
5555-4600	1 – 8

# Triathlon® Knee System

## Single-Use Instruments Surgical Protocol



Figure 1

### Exposure

- ▶ A standard anterior midline incision can be utilized. Any previous incision can be used or incorporated to decrease risk of skin slough.
- ▶ The capsule can be entered through a modified mid-vastus approach, which makes a skin incision medial to the patella from just above the tibial tubercle to just above the patella.
- ▶ Use a soft tissue approach that allows adequate patella visualization and sufficient knee flexion.

This surgical technique describes cutting the tibia first, followed by the femur and then patella. The sequence may be varied based upon surgeon preference.

In some patients it may be difficult to cut the femur first and get proper rotation due to the tibia being in the way of the placement of the femoral sizer. In these cases it may be beneficial to cut the distal femur, then tibia, and then go back to size and finish the femoral cuts.

### Tibial Preparation

- ▶ The tibia is prepared using the Triathlon extramedullary alignment system. Retractors may be placed medially, laterally, and posteriorly to expose the tibial plateau for preparation. It is important to remove all osteophytes, menisci and remaining soft tissues. Menisci can be removed before or after the bone cut. If the PCL has been retained, an optional retractor is available to cradle the PCL for increased exposure. The knee is flexed anywhere from 45 degrees to more than 90 degrees of flexion depending on surgeon preference. The tibia may be subluxed or dislocated as required.

- ▶ The tibial plateau referencing arm of the proximal rod is placed on the proximal tibia just anterior to the ACL insertion. A rongeur may remove any osteophytes that prevent satisfactory positioning.

### Rotational Alignment

- ▶ The assembly must be in the proper rotational alignment. The most common landmark referenced is the tibial tubercle. The assembly should be aligned with the medial third of the tibial tubercle.
- ▶ Once the rotational alignment is determined, a headless pin is placed through the posterior fixation hole in the proximal assembly to lock it in place. Either the anterior or posterior fixation holes may be used to set the flexion extension and rotational alignment.

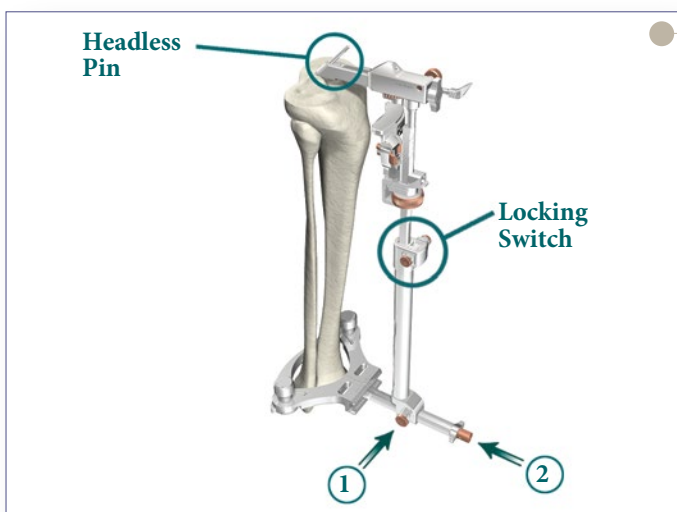


Figure 2

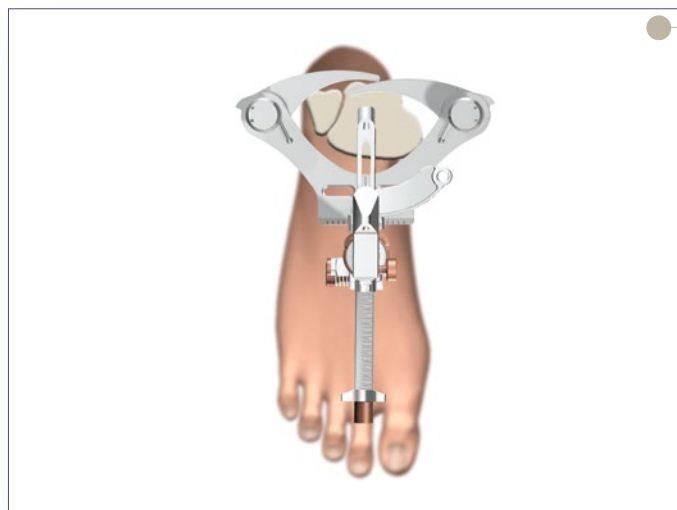
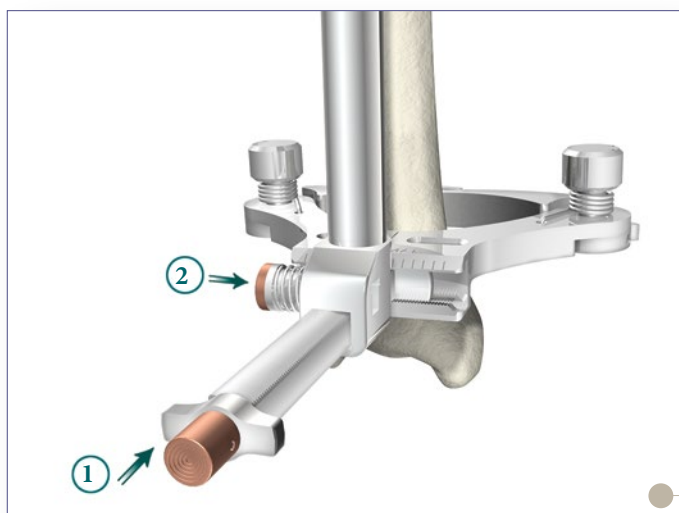


Figure 3





**Figure 4**

### **Varus-Valgus Alignment**

- ▶ Once the proximal portion of the assembly is fixed, varus-valgus alignment can be attained by adjusting the distal assembly to the proper medial/lateral position. The position should be in the center of the talus, not the center of the ankle. The center of the talus usually resides 5 to 10mm medial to the mid-point between the medial and lateral malleoli.
- ▶ Medial/lateral offset can be adjusted by pushing the bronze button on the anterior portion of the distal assembly ①. Once alignment is achieved, the bronze button is released and the assembly is fixed in place.
- ▶ The proper tibial resection should be 0 degrees in the coronal plane of the tibia.

### **Flexion-Extension Alignment**

- ▶ Once rotational alignment is determined, the ankle clamp is placed just proximal to the ankle at the level of the maleolus. The distal assembly locking switch, located approximately halfway up the rod, is then locked. Adjustments to the flexion extension alignment can be made by depressing the button located on the inferior left hand side of the distal assembly ②.
- ▶ Flexion and extension alignment is proper when the long axis of the assembly parallels the weight-bearing axis of the tibia in both the coronal and sagittal planes. Usually, there is less space between the assembly and the tibia proximally than there is distally. Alignment can be verified using the universal alignment tower and universal alignment rod, which can be assembled to the anterior inferior hole on the tibial adjustment housing.
- ▶ The proper tibial resection should be 0 to 3 degrees of slope in the sagittal plane, depending on surgeon preference and the type of implant used.

**Note:** It is important that there is no anterior slope in the tibial resection.

## **Instrument Bar**



**6541-6-700**

MIS Uncaptured Tibial Resection Guide-Right



**6541-6-701**

MIS Uncaptured Tibial Resection Guide-Left



**6541-6-702**

MIS Captured Tibial Resection Guide-Right



**6541-6-703**

MIS Captured Tibial Resection Guide-Left



**6541-2-610**

Tibial Alignment Distal Assembly EM



**6541-2-609**

Tibial Alignment Ankle Clamp EM



**6541-2-429**

Tibial Stylus



**0° slope 6541-2-704**

**3° slope 6541-2-705**

Tibial Adjustment Housing



**6541-6-611**

MIS Proximal Rod EM

# Triathlon® Knee System

## Single-Use Instruments Surgical Protocol

### Referencing the medial compartment

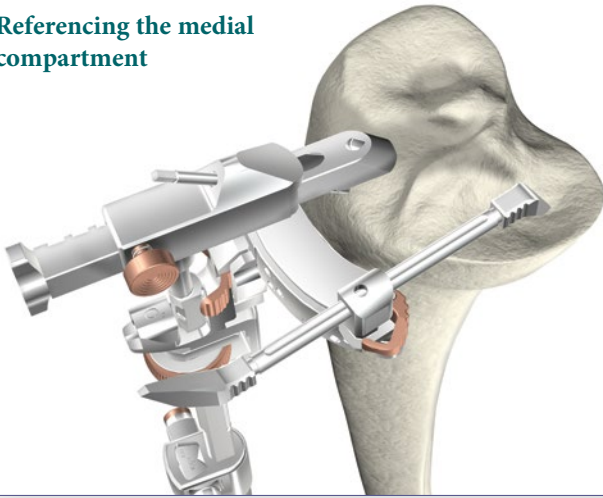


Figure 5

### Referencing the lateral compartment

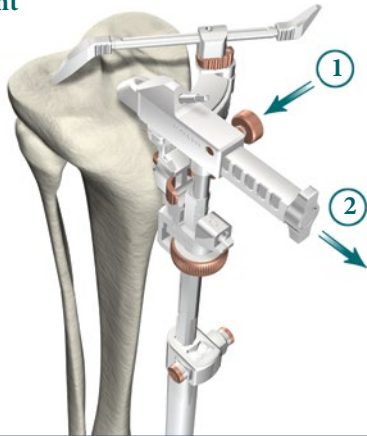


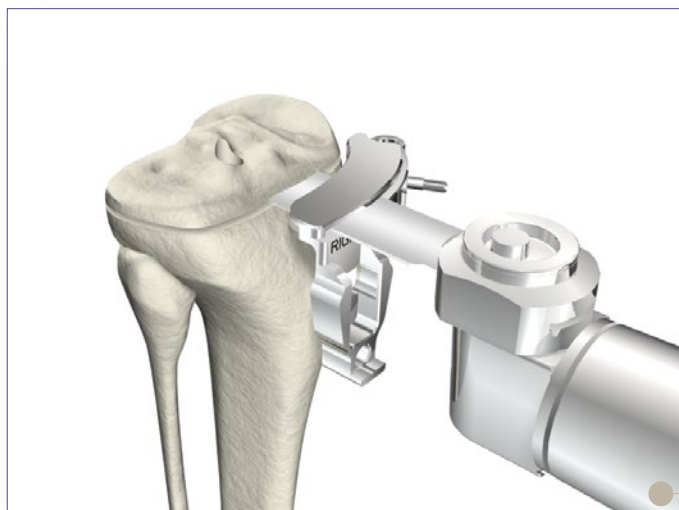
Figure 6

### Establishing the Tibial Resection Level

- ▶ Once the tibial assembly is fixed in place, the tibial resection level must be established using the tibial stylus. This attaches to the tibial resection guide referencing either the lowest level of the affected compartment or the highest level of the unaffected compartment. Typically, in a varus knee, the lateral compartment is relatively unaffected so placing the “9” referencing end on the unaffected lateral side will insure at least a 9mm thickness for the tibial component. If the surgeon desires a thicker tibial component or if there is a defect on the medial side of the tibia necessitating resection, further resection can be made.
- ▶ To reference the lateral compartment, retraction of the proximal rod arm is performed by pressing the bronze button ①, and sliding the arm away from the knee ②.
- ▶ Alternatively, by placing the tibial resection guide with the “2” referencing end, the resection carried out would be 2mm lower than the point chosen. For a coarse gross adjustment, the bronze wheel can be pressed and the assembly slid up or down. For the final fine adjustment, the bronze wheel is turned to the right to move the assembly up the proximal rod or turned left to move the assembly down the proximal rod.

**Tip:** When using the stylus, it is important to make sure the construct is under tension. This will help ensure adequate resection levels.

- ▶ Once the final position is chosen, two headless pins are drilled into the “0” neutral holes securing the level of the tibial resection guide. For additional stability, the oblique “X” pinhole can be utilized. Once the tibial resection guide is secured, all alignment instruments are removed.



**Figure 7**

### **Final Tibial Resection**

- Once all alignment instruments are removed leaving the tibial resection guide in place, the proximal tibia is osteotomized using either the right or left captured or uncaptured tibial resection guide. If the entire resection cannot be completed, the guide is removed and the resection completed free-hand. Care must always be taken not to injure the patella tendon, neurovascular structures, or collateral ligaments. Often some bone is left unresected near the posterior aspect of the lateral tibial plateau and the anterior aspect of the lateral tibial plateau near Gerdy's tubercle. Once the resection guide is removed, final resection can be completed either with an oscillating saw, bone file or a rongeur.

**Note:** Leaving the pins in place will allow for an additional 2mm or 4mm of tibial resection. The pins must be removed prior to cutting the tibial keel.

## **Instrument Bar**

**6541-2-610**

Tibial Alignment Distal Assembly EM



**6541-2-609**

Tibial Alignment Ankle Clamp EM



**6541-2-429**

Tibial Stylus



**6541-6-611**

MIS Proximal Rod EM



**0° slope 6541-2-704**

**3° slope 6541-2-705**

Tibial Adjustment Housing



**6541-6-700**

MIS Uncaptured Tibial Resection Guide-Right



**6541-6-701**

MIS Uncaptured Tibial Resection Guide-Left



**6541-6-702**

MIS Captured Tibial Resection Guide-Right



**6541-6-703**

MIS Captured Tibial Resection Guide-Left



**6541-4-003**

Headless Pins - 3"



# Triathlon® Knee System

## Single-Use Instruments Surgical Protocol

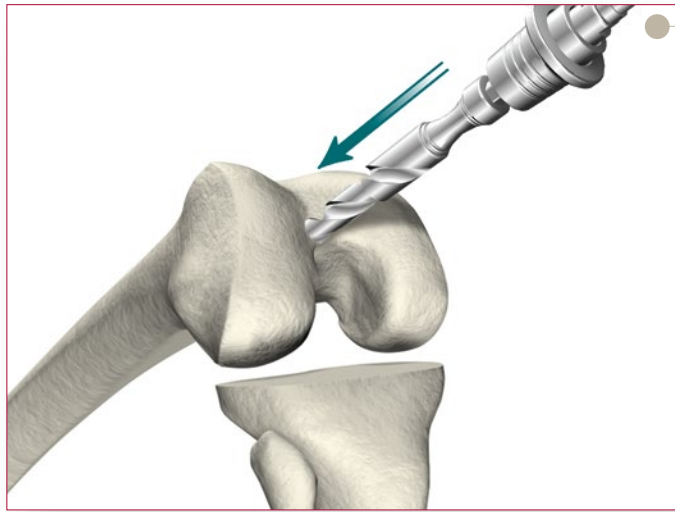


Figure 8

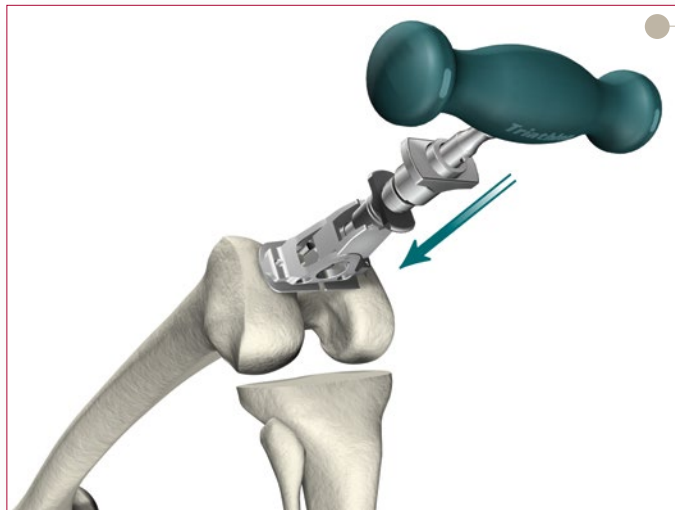


Figure 9

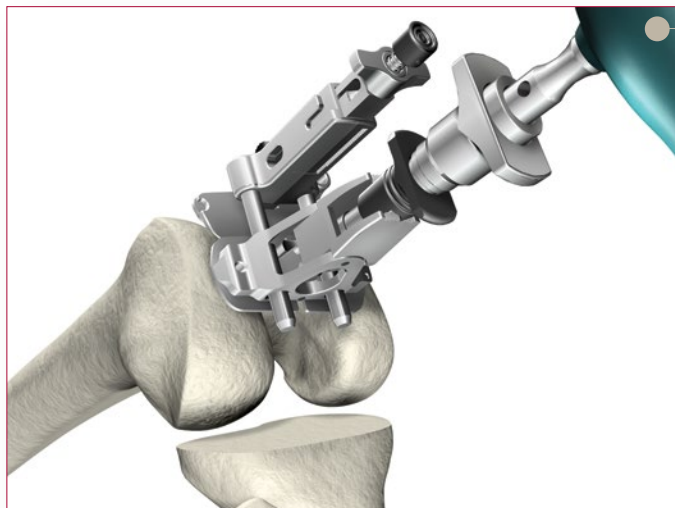
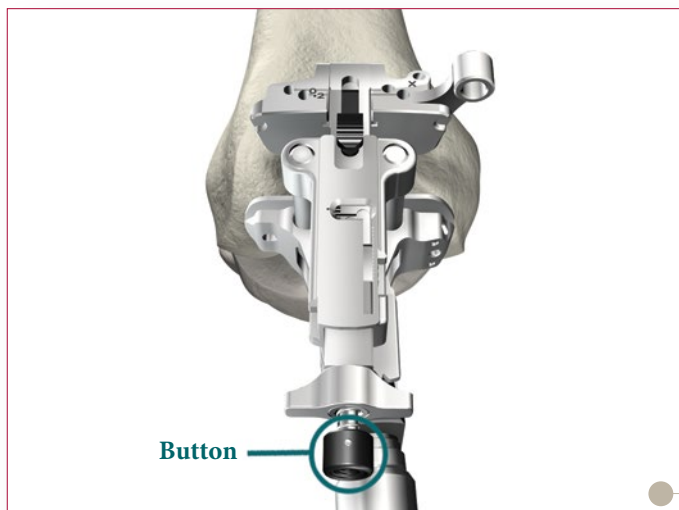


Figure 10

### Femoral Preparation

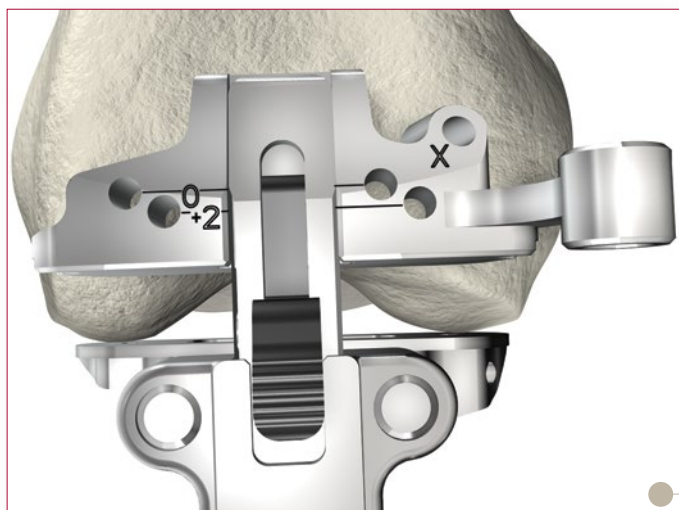
#### Femoral Intramedullary Alignment

- ▶ The Universal Driver allows for attachment of all drills and pins. The Universal Driver may be attached directly to a reamer, drill, or a Jacob's Chuck.
- ▶ Locate the IM drill hole; it is approximately 1cm anterior to the femoral attachment of the posterior cruciate ligament and slightly medial to the midline of the distal femur.
- ▶ Identification of landmarks may be aided by removal of osteophytes from the margins of the intercondylar notch.
- ▶ Attach the  $\frac{3}{8}$ " IM Drill to the Universal Driver and drill into the IM canal ensuring that the drill is parallel to the shaft of the femur. The first diameter will create a tight fit around the IM Rod. If further clearance is desired, continue to drill until the larger step diameter opens the hole. This will allow the IM canal to dictate the position of the rod avoiding the need to "toggle" the drill to create clearance.
- ▶ Attach the T-Handle Driver to the  $\frac{5}{16}$ " IM Rod. Insert the IM Rod into the MIS Femoral Alignment Guide. The MIS Femoral Alignment Guide is designed for use on either the left or right knee and may be set between 2° and 9° of valgus (Note: this is typically set between 5° and 7°). Set the instrument to the desired angle by pulling back on the black knob of the MIS Femoral Alignment Guide and placing it in the appropriate notch. Advance the rod, with attached guide, slowly up the IM canal until the desired depth is reached ensuring that the alignment guide is flush against the most prominent condyle.
- ▶ Snap the MIS Distal Resection Guide onto the MIS Adjustment Block and insert the posts of the MIS Adjustment Block into the two holes in the MIS Femoral Alignment Guide.
- ▶ Place the MIS Femoral Alignment Guide in contact with the more prominent distal femoral condyle and align the guide in neutral I/E rotation. The guide face is angled at 3° and has a tick mark to reference Whiteside's Line to set I/E rotation, if desired.
- ▶ Insert  $\frac{1}{8}$ " headless pins into the converging pinholes on the MIS Femoral Alignment Guide to aid in stabilization.



**Figure 11**

- ▶ Position the leg in 45°-60° of flexion.
- ▶ The MIS Adjustment Block allows for a 2mm through 12mm resection level.
- ▶ Press the black button on the end of the MIS Adjustment Block and push/pull the carrier to set the resection to the desired level.



**Figure 12**

- ▶ The Triathlon MIS Knee System Instruments allow for a clear view of the bone that is being resected to ensure the appropriate level is set.
- ▶ Slide the Adjustment Block Assembly posteriorly within the Femoral Alignment Guide until the Distal Resection Guide contacts the anterior surface of the femur.

## Instrument Bar

**6541-4-801**

Universal Driver



**6541-4-538**

3/8" IM Drill



**6541-4-800**

T-Handle Driver



**6541-4-516**

5/16" IM Rod



**6541-5-629**

MIS Femoral Alignment Guide



**6541-5-721**

MIS Distal Resection Guide - Left



**6541-5-722**

MIS Distal Resection Guide - Right



**6541-5-601**

MIS Femoral Adjustment Block



**6541-4-003**

Headless Pins - 3"





# Triathlon® Knee System

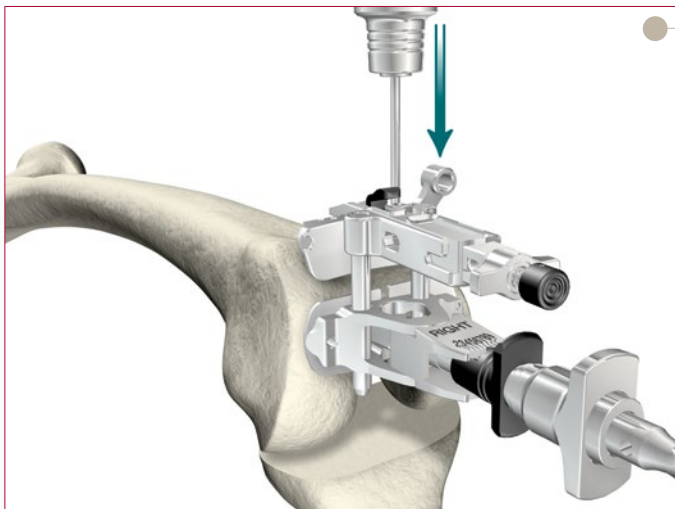
## Single-Use Instruments Surgical Protocol



**Figure 13**

### Optional Check

- ▶ Prior to pinning the Distal Resection Guide to the femur, an optional external alignment check may be performed. Attach the Femoral EM Alignment Tower to the MIS Femoral Adjustment Block and insert a Universal Alignment Rod into the handle.
- ▶ Alignment is correct when the rod intersects the center of the femoral head and roughly parallels the axis of the femur in the lateral view.
- ▶ Once satisfactory alignment is achieved, remove the Femoral EM Alignment Tower and the Universal Alignment Rod.

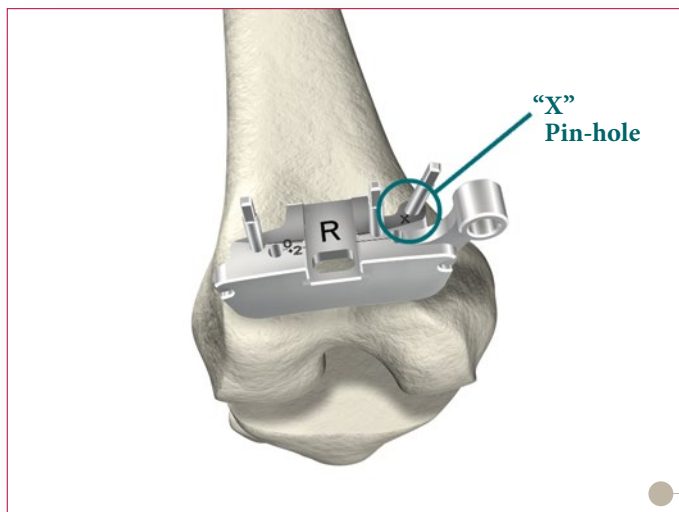


**Figure 14**

- ▶ Pin the Distal Resection Guide to the anterior femur using Headless Pins. Insert the pins into the Headless Pin Driver (which is inserted into the Universal Driver) and drill through the set of holes marked "0" on the Distal Resection Guide. The pins are automatically released from the driver as it is pulled back.

**Note:** Ensure that 1/2" of the pin is protruding from all guides after insertion. This will aid in pin removal.





**Figure 15**

- ▶ Pinning through the “X” pin hole will aid in further securing the guide.
- ▶ After the Distal Resection Guide is pinned in place, remove headless pins from the Femoral Alignment Guide and remove the IM rod. The Femoral Alignment Guide and the Adjustment Block may be removed by pressing the black button on top of the Adjustment Block.

## Instrument Bar



**6541-7-808**  
MIS Femoral EM Alignment Tower



**6541-5-601**  
MIS Femoral Adjustment Block



**6541-4-602**  
Universal Alignment Rod



**6541-5-721**  
MIS Distal Resection Guide - Left



**6541-5-722**  
MIS Distal Resection Guide - Right



**6541-4-801**  
Universal Driver



**6541-4-809**  
Headless Pin Driver



**6541-5-629**  
MIS Femoral Alignment Guide

# Triathlon® Knee System

## Single-Use Instruments Surgical Protocol

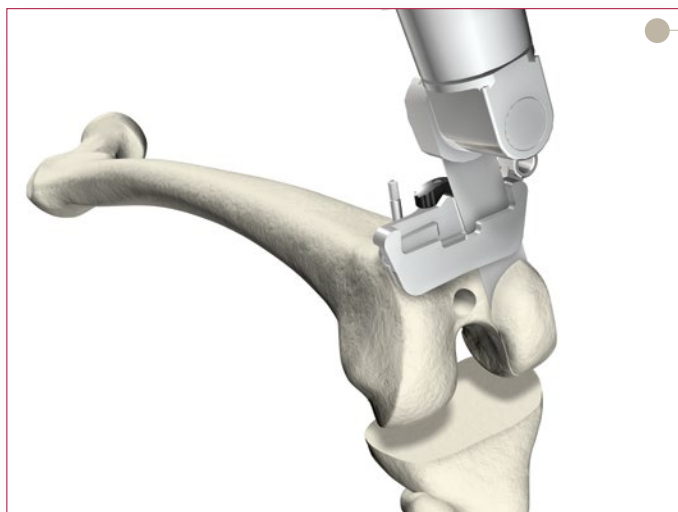


Figure 16

### *Distal Femoral Resection*

- ▶ The distal resection level may be altered by repositioning the Distal Resection Guide in the 2 holes. This will remove an additional 2mm of bone.
- ▶ Once the final resection level is determined, the distal femoral resection is made. An optional Modular Capture can be attached to the Distal Resection Guide.
- ▶ The Triathlon MIS Knee System Instruments are designed to provide control of the saw blade during bone resections. When using captures or cutting through slots, a .050" (1.25mm) thick blade is used.

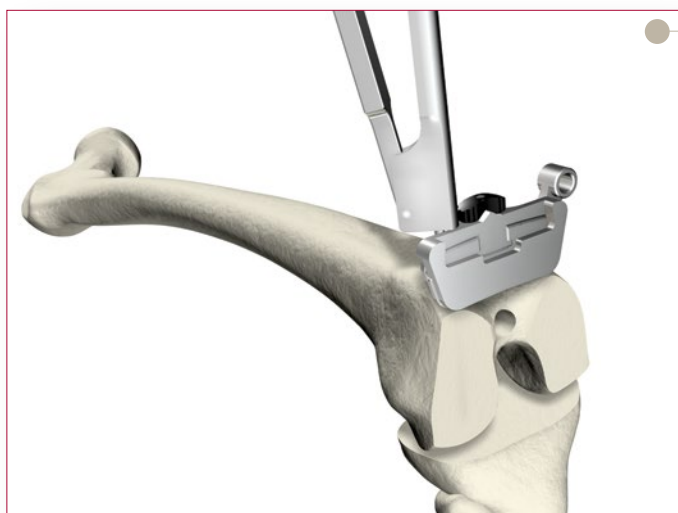
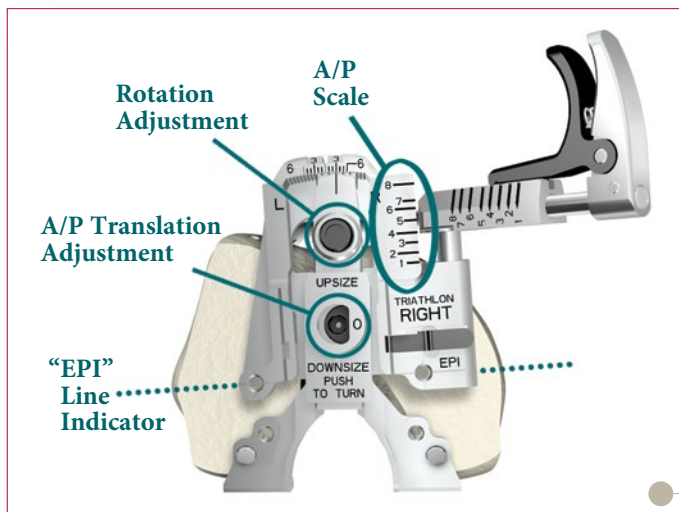


Figure 17

- ▶ Remove the modular capture and check the resection for flatness.
- ▶ Remove the Headless Pins in the Distal Resection Guide using the Pin Puller.
- ▶ Remove the Distal Resection Guide and check the resection for flatness.

**Note:** If the "X" pin hole is used, the pin must be removed prior to repositioning or removing the Distal Resection Guide.



**Figure 18**

### Femoral A/P Sizing

- ▶ Pre-assemble the MIS Femoral Sizer Body (Left or Right) onto the MIS Femoral Sizer Adjustment Housing
- ▶ Place the MIS Femoral Sizer Assembly onto the resected distal femur, sliding the feet of the Sizer under the posterior condyles.
- ▶ External rotation (0-6° Left or Right) is set by depressing the black button on the top of the Femoral A/P Sizer and rotating mediolateral. For mechanical alignment set rotation in order to cut parallel to the epicondylar axis.
- ▶ Assemble the MIS Femoral Stylus to the MIS Femoral Sizer and extend the stylus over the lateral flange to rest on the anterior cortex of the femur at the desired run-out point of the anterior resection.

**Note:** The MIS Femoral Stylus uses two sizing references. First, read the A/P scale by viewing the position of the indicator lip of the femoral stylus against the A/P scale on the medial side of the A/P sizer. Second, adjust the superior/inferior position of the stylus to match the first A/P scale reading. Check to verify the two sizing references match. If the A/P scale reading then changes, reset the S/I stylus position to the newly indicated reading. Repeat steps until the two readings converge.

## Instrument Bar

6541-5-721

MIS Distal Resection Guide - Left



6541-5-722

MIS Distal Resection Guide - Right



6541-5-723

MIS Modular Distal Capture



6541-4-003

Headless Pins - 3"



6633-7-605

Pin Puller



6541-5-500

MIS AP Sizer Adjustment Housing



6541-5-508

MIS AP Sizer Body - Left



6541-5-509

MIS AP Sizer Body - Right



6541-5-510

MIS Femoral Stylus



# Triathlon® Knee System

## Single-Use Instruments Surgical Protocol

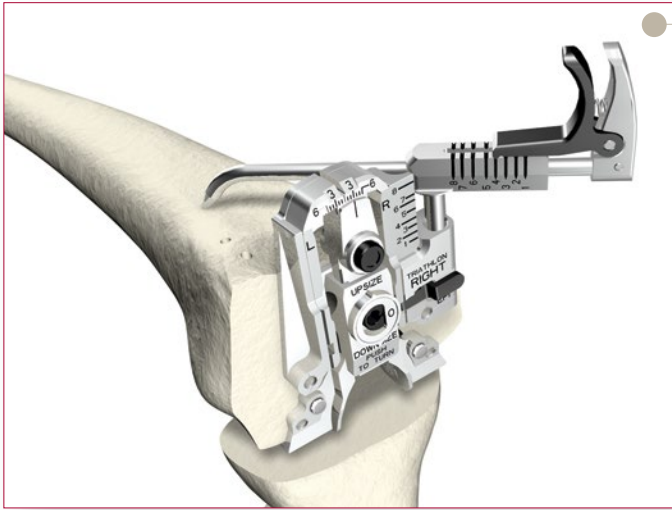


Figure 19

- It is important that the Femoral Stylus point rests on bone and not soft tissue or an osteophyte. In an MIS procedure this may be hard to see.

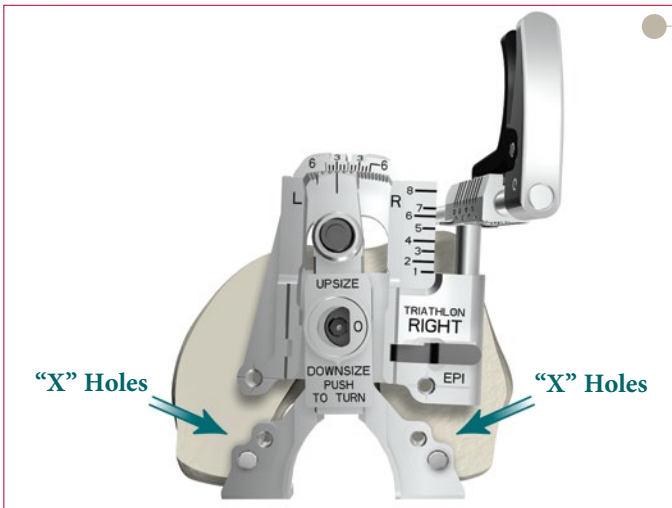


Figure 20

- The Femoral Sizer can be pinned in place through the holes marked "X" with Headed Pins.

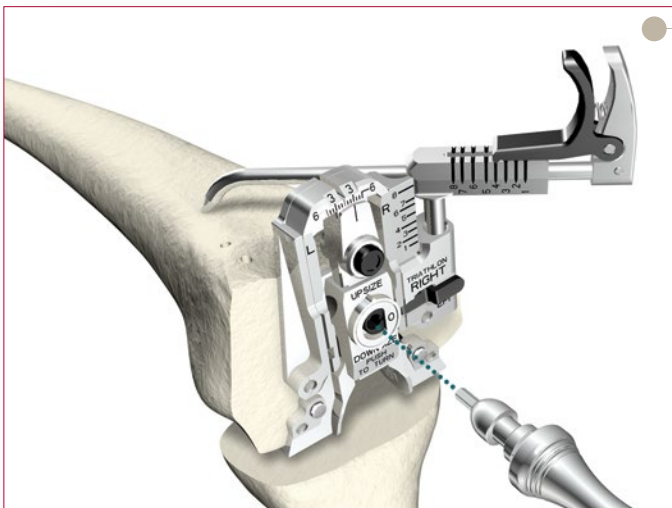
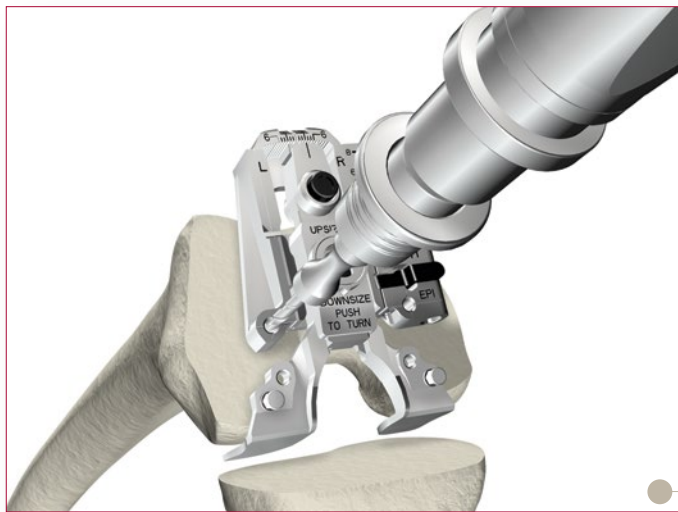


Figure 21

**Note:** If the femoral stylus reads in-between sizes, an optional A/P translation feature may be used. Simply use the Hex Driver found on the reverse side of the Femoral Flexion Impactor to translate the A/P Femoral Sizer up or down 1.5mm. (Triathlon Primary prosthesis grows in the anterior direction approximately 3mm between sizes.)

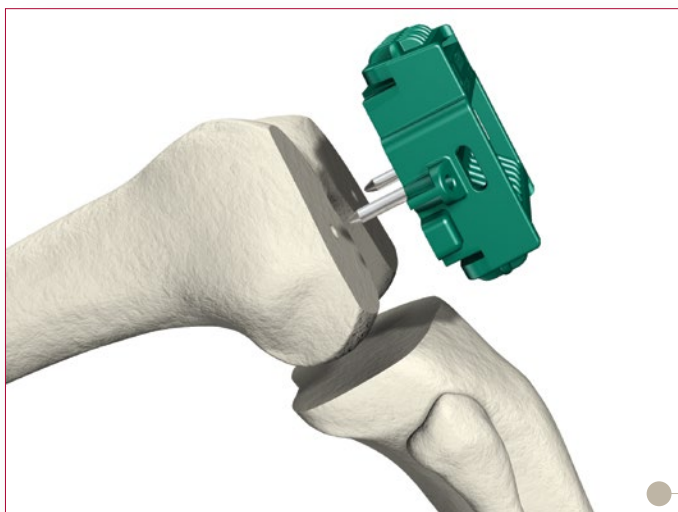
- A tertiary check to verify external rotation is to assess A/P axis with the Blade Runner through the slot in the top of the guide.



**Figure 22**

- Once size confirmation is complete, attach the 1/8" Peg Drill to the Universal Driver and create fixation pin holes (for the 4:1 Cutting Block) through the holes on the face of the Femoral Sizer marked "EPI".
- Remove the Headed Pins using the Headed Pin Extractor.

**Note:** With the use of the Single-Use 4:1 Cutting Block there is the potential for debris generation. It is recommended that the saw blade be fully inserted into the slot prior to initiating oscillation. Additionally, it is recommended that an irrigation system be available and that the joint be thoroughly irrigated after use of the block.



**Figure 23**

- Locate the fixation pegs of the appropriate size Single-Use 4:1 Cutting Block into the pin holes created on the distal femur.

## Instrument Bar



**6541-5-500**  
MIS AP Sizer Adjustment Housing



**6541-5-508**  
MIS AP Sizer Body - Left



**6541-5-509**  
MIS AP Sizer Body - Right



**6541-5-510**  
MIS Femoral Stylus



**6541-4-802**  
1/8" Hex Drive



**6541-4-518**  
1/8" Peg Drill



**6541-4-801**  
Universal Driver



**6541-4-300**  
Headed Pin Impactor Extractor



**6541-4-515**  
Headed Nails - 1 1/2"



**See Catalog**  
**Triathlon Single-Use Instruments**  
**Femoral Prep Kit**

Single-Use 4:1 Cutting Block

# Triathlon® Knee System

## Single-Use Instruments Surgical Protocol

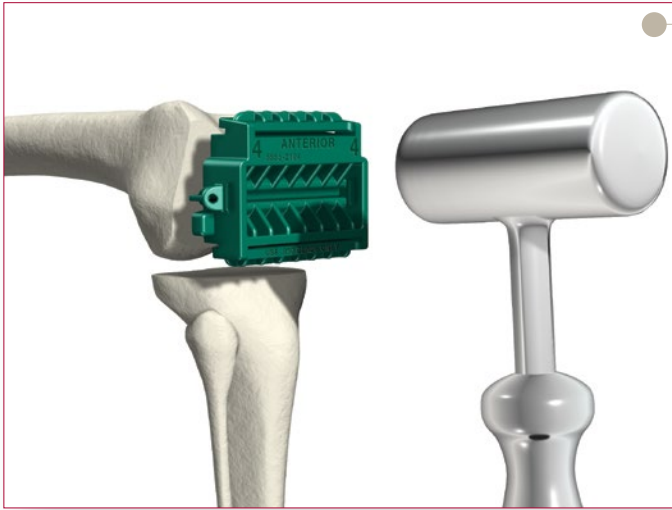


Figure 24

- Impact the Single-Use 4:1 Cutting Block flush against the distal bone using a Femoral Impactor or by directly impacting on to the surface of the Cutting Block.

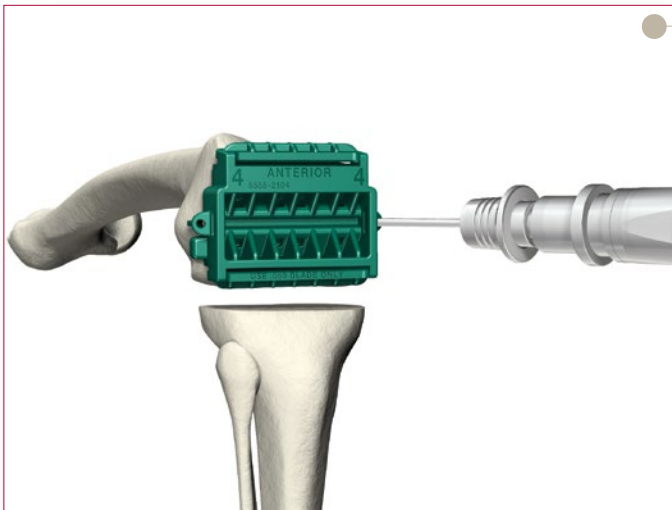


Figure 25

- Stabilize the 4:1 cutting block by placing headless pins in the medial and lateral angled pin holes. Verify stability.

**Note:** To confirm appropriate femoral size, check run-out of the anterior cut. If not flush with anterior cortex, consider selecting the next smaller size Single-Use 4:1 Cutting Block. As a secondary check, femoral M/L width sizing can be verified by utilizing the width of the Single-Use 4:1 Cutting Block as marked on the backside of the block.

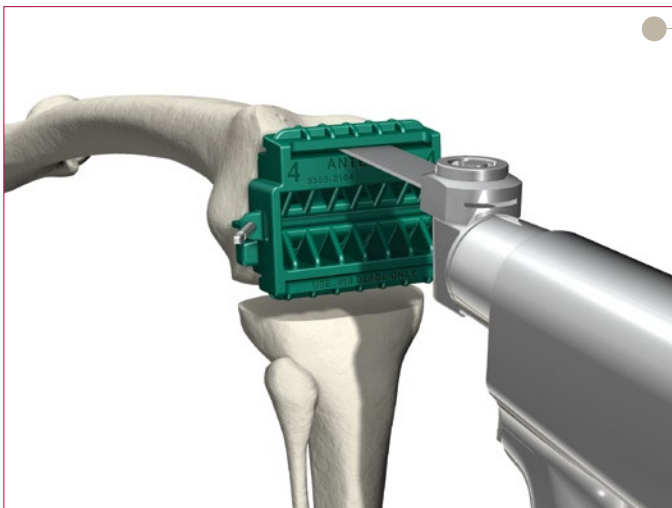


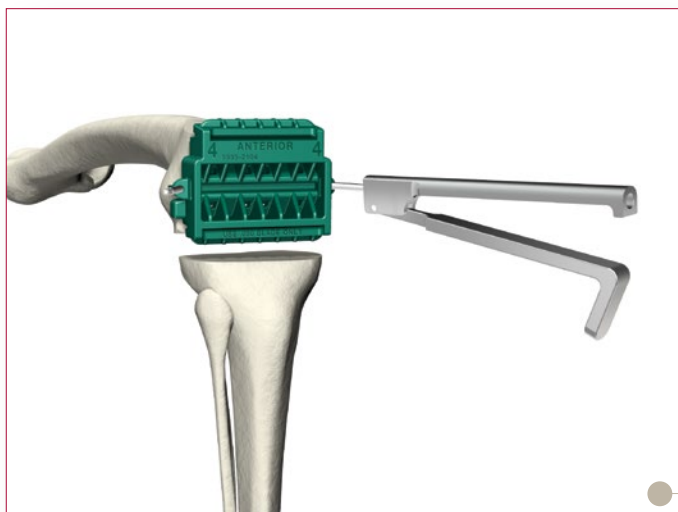
Figure 26

### *Femoral Anterior, Posterior and Chamfer Resections*

- Complete the remaining four femoral bone resections. The use of a .050" (1.25mm) thick saw blade is recommended.
- The order of bone resections is not critical; however, a recommended sequence for improved stability of the 4:1 Cutting Block is:
  1. Anterior cortex.
  2. Posterior condyles.
  3. Posterior chamfer.
  4. Anterior chamfer.

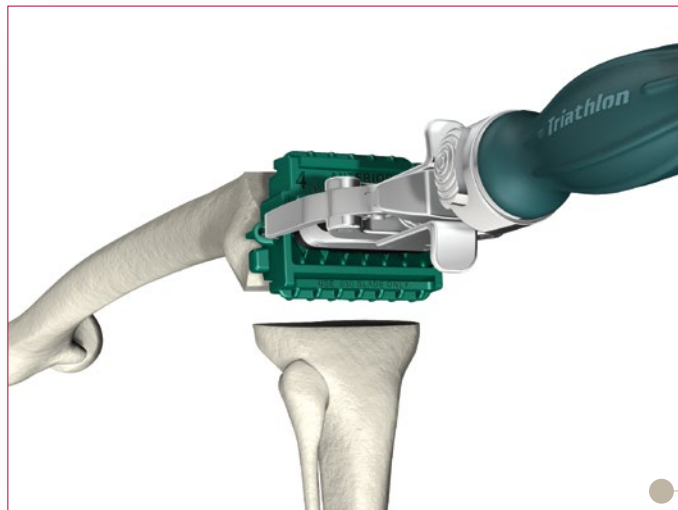
**Note:** Fully insert blade into the cutting slot of the Single-Use 4:1 Cutting Block before initiating oscillation of saw blade. Cutting the anterior chamfer last helps to stabilize the Single-Use 4:1 Cutting Block.





**Figure 27**

- Remove the Headless Pins from the Single-Use 4:1 Cutting Block using the Pin Puller.



**Figure 28**

- Extraction of the Single-Use 4:1 Cutting Block can be achieved by using the Femoral Impactor Extractor with the provided tab slots on the block.
- Ensure bone resections are complete.

**Note:** Do not over torque the Femoral Impactor/Extractor during engagement with the Single-Use 4:1 Cutting Block. Upon removal of the Single-Use 4:1 Cutting Block, irrigate thoroughly.

## Instrument Bar

See Catalog  
Triathlon Single-Use Instruments  
Femoral Prep Kit

Single-Use 4:1 Cutting Block



6541-4-003

Headless Pins - 3"



6541-4-801

Universal Driver



6633-7-605

Pin Puller



6541-4-807

Femoral Impactor/Extractor



6541-4-810

Impaction Handle



# Triathlon® Knee System

## Single-Use Instruments Surgical Protocol

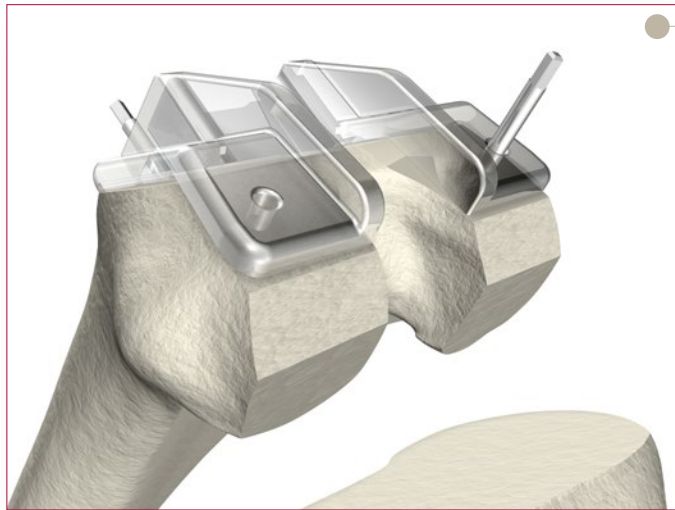


Figure 29

### PS Box Preparation

- If the surgeon has chosen a PS knee, then the intercondylar notch must be resected. In order to accomplish this, the Single-Use PS Box Cutting Guide is placed onto the distal femur. Since the width of the distal portion of the guide represents the exact width of the implant, it should be centered and placed in the desired position flush with the distal resection. The box guide is then pinned to the femur using the Headless Pins through the holes on the anterior surface, as well as the distal surface of the cutting guide.

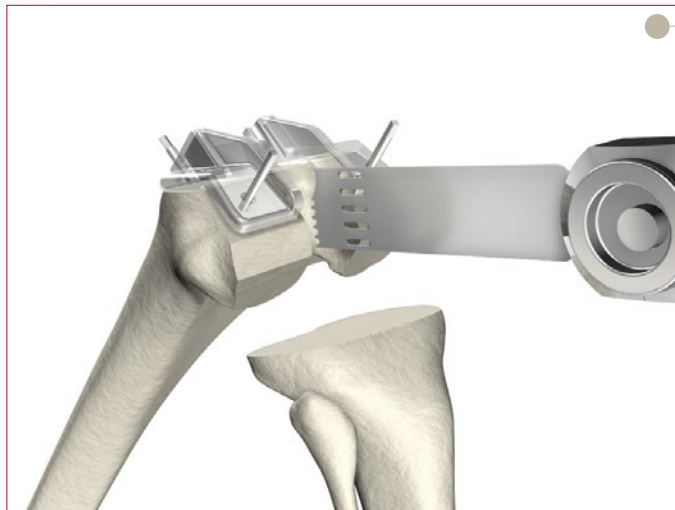


Figure 30

- First, using the inside surfaces of the box opening as guides, score the posterior cortex on both sides of the posterior portion of the intercondylar notch as well as the anterior using the saw blade.

**Note:** Care must be taken not to saw beyond the depth of the Single-Use PS Box Cutting Guide.

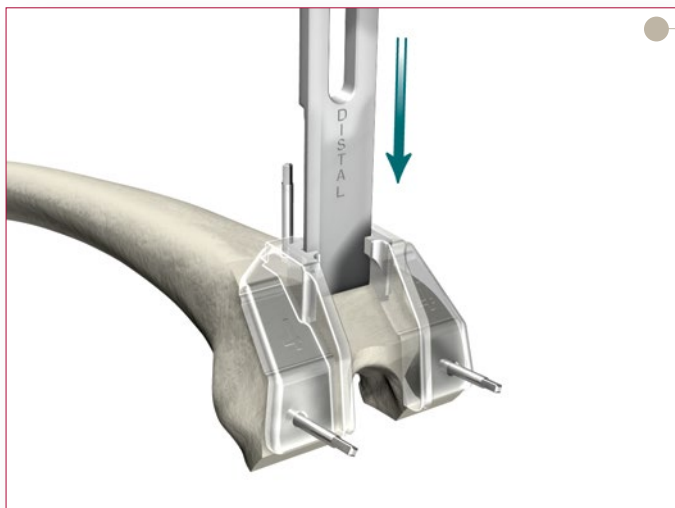
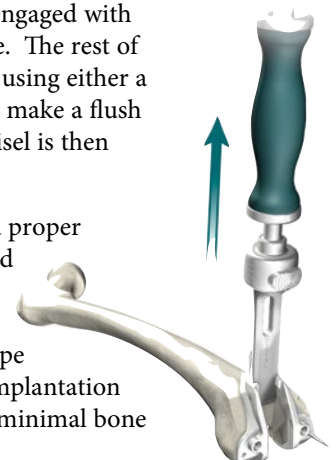


Figure 31

- The chisel is assembled to the Impaction Handle and then is placed within the slot of the Single-Use PS Box Cutting Guide with the surface marked “distal” towards the distal portion of the femur. The chisel is then fully engaged with a mallet and left in place. The rest of the box is then resected using either a saw blade taking care to make a flush resection. (The Box Chisel is then removed.)

**Note:** In order to prepare a proper rectangular box, care should be taken not to bias the saw blade. Preparation of a proper rectangular shape will facilitate an accurate implantation of the PS component with minimal bone resection.



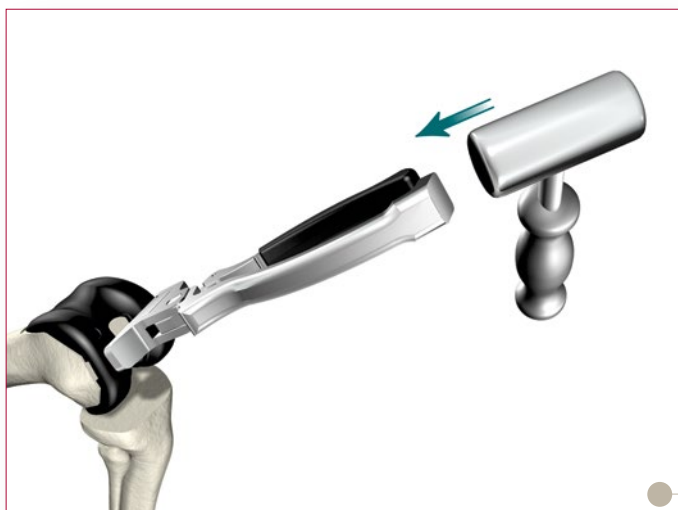


**Figure 32**

### **Femoral Trial Assessment**

(The remaining portion of the technique should be used for a Posterior Stabilized or Cruciate Retaining knee.)

- Assemble the appropriate size symmetrical Single-Use PS or CR Femoral Trial to the Femoral Impactor Extractor with the Impaction Handle or use the Femoral Trial Extractor pictured in Figure 32.



**Figure 33**

- Impact the Single-Use PS or CR Femoral Trial onto the prepared distal femur. Use the Impaction Handle to ensure the Femoral Trial is aligned with the distal plane.

## **Instrument Bar**

See Catalog  
Triathlon Single-Use Instruments  
Femoral Prep Kit  
PS Box Cutting Guide



6541-4-003  
Headless Pins - 3"



6541-4-709  
Box Chisel



6541-4-810  
Impaction Handle



6541-4-803  
Slap Hammer



See Catalog  
Triathlon Single-Use Instruments  
Femoral Prep Kit  
CR Universal Femoral Trial



See Catalog  
Triathlon Single-Use Instruments  
Femoral Prep Kit  
PS Universal Femoral Trial



6541-7-807  
MIS Femoral Trial Extractor

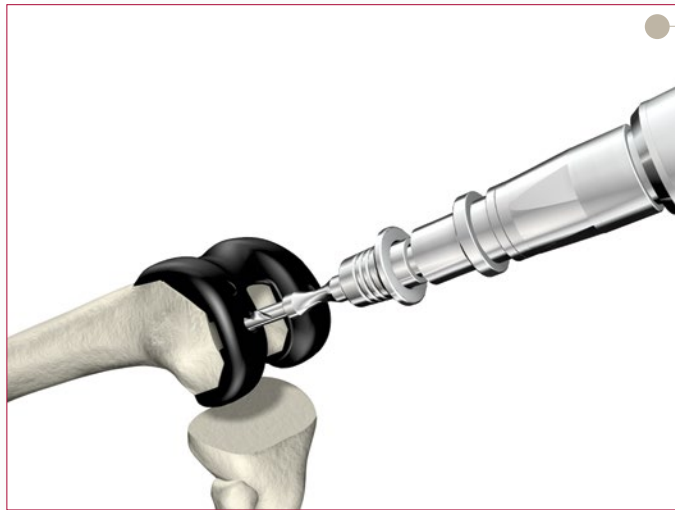


6541-4-807  
Femoral Impactor/Extractor



# Triathlon® Knee System

## Single-Use Instruments Surgical Protocol



*Figure 34*

- ▶ Remove the Femoral Impactor/Extractor and Impaction Handle and assess the fit of the Single-Use PS or CR Femoral Trial. Care must be taken to ensure that all of the osteophytes beyond the end of the posterior femoral condyles are removed.
  - Cruciate Retaining Knee: Attach the 1/4" Peg Drill to the Universal Driver and create the Modular Femoral Distal Fixation Peg holes. The Posterior Osteophyte Removal Tool or any curved osteotome may be used to remove posterior osteophytes.
  - Posterior Stabilized Knee: If the Modular Femoral Distal Fixation Pegs are to be used, use the 1/4" Peg Drill, attached to the Universal Driver to prepare the distal femoral peg holes.
- ▶ The assessment of the fit of the Single-Use Femoral Trial is similar for both the CR and PS implants. The appropriate size femoral implant trial is applied to the Femoral Trial Impactor/Extractor. The Femoral Trial is then impacted onto the prepared distal femur and the Impactor/ Extractor is removed. The fit of the Femoral Trial is checked to ensure that there is a flush fit.
- ▶ The Triathlon CR knee has integral medial and lateral femoral pegs. Therefore, if a CR implant is chosen, the 1/4" peg drill is assembled to the Universal Driver and distal fixation peg holes are drilled through the holes in condyles of the Femoral Trial.
- ▶ The cemented posteriorly stabilized femoral component does not come with integral pegs but rather modular capability. Should the surgeon choose to use distal fixation pegs, the holes are drilled in a similar fashion. Once this has been accomplished, the trial may be removed. At this point, the tibia, if not already prepared, must be prepared for the tibial implant. Keeping the Femoral Trial in place helps assure adequate exposure, but it may be removed for tibial preparation if desired.

- ▶ Attach the Femoral Impactor/Extractor or the Femoral Trial Impactor to the Single-Use PS or CR Femoral Trial and remove from the femur.



**Figure 35**

### ***Tibial Component Sizing***

- ▶ Retractors are placed to expose the tibial plateau. The Single-Use Femoral Trial may be left in place.
- ▶ Triathlon Single-Use Instruments include color-coded Tibial Sizers for proper sizing of the tibial resection.
- ▶ Choose the appropriate Single-Use Tibial Sizer to measure the resected tibia and note the size. The size that is chosen will determine the size of your Tibial Preparation Kit.



**Figure 36**

## **Instrument Bar**



See Catalog  
**Triathlon Single-Use Instruments  
Femoral Prep Kit**

CR Universal Femoral Trial



See Catalog  
**Triathlon Single-Use Instruments  
Femoral Prep Kit**

PS Universal Femoral Trial

**6541-4-525**  
1/4" Peg Drill



**6541-4-801**  
Universal Driver



**6541-7-807**  
MIS Femoral Trial Extractor



See Catalog  
**Triathlon Single-Use Instruments  
Tibial Sizer Kit**  
Tibial Sizer

**6541-4-807**  
**6541-7-807**  
Femoral Impactor/Extractor



**Tibial  
Preparation**

**Femoral  
Preparation**

# Triathlon® Knee System

## Single-Use Instruments Surgical Protocol

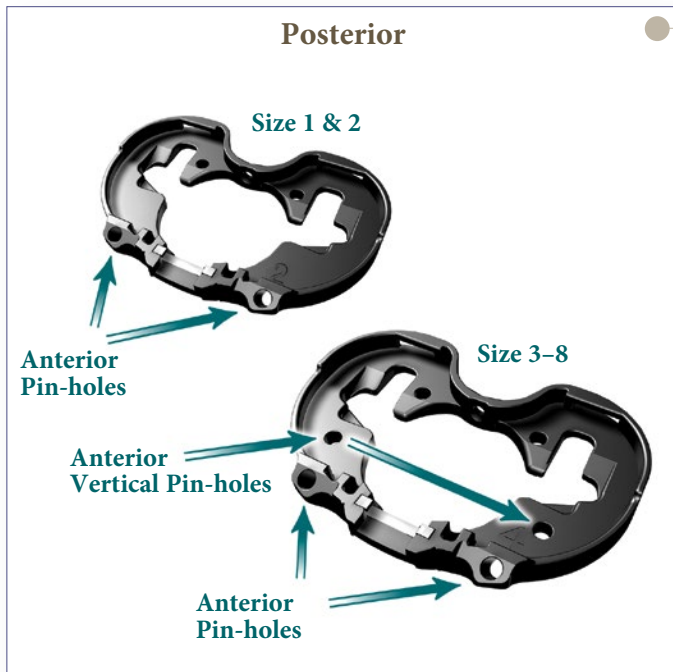


Figure 37



Figure 38

### Tibial Component Sizing

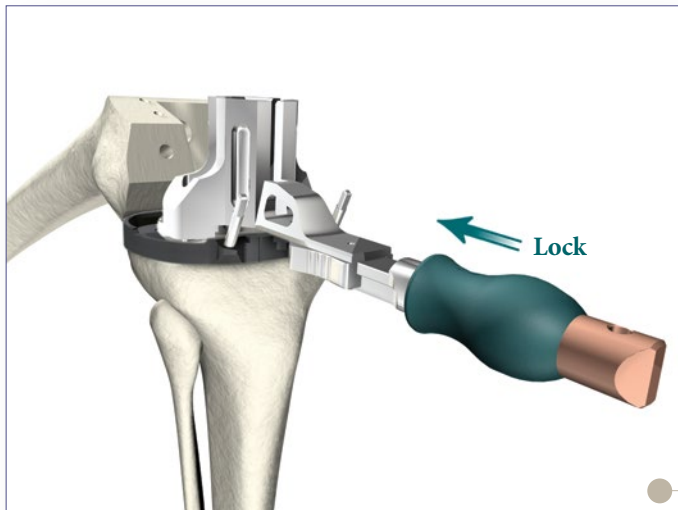
- ▶ The Tibial Alignment Handle, Single-Use Universal Tibial Template, and Single-Use Tibial Insert Trial are used to size the tibia, perform a trial reduction, and assess overall component fit, ligament stability and joint range of motion.
- ▶ Once the surgeon has determined alignment, the Single-Use Universal Tibial Template has multiple pin-holes that can be used to secure the template in the desired position.
- ▶ If Headed Nails are placed in the anterior-vertical pin-holes (applicable only to sizes 3, 4, 5, 6, 7 and 8) of the Single-Use Universal Tibial Template, ensure that the Single-Use Tibial Insert Trial is inserted posterior to the Headed Nails.

**Note:** Do not impact the Single-Use Tibial Insert Trial. In the event that excessive resistance is encountered during insertion of the Single-Use Tibial Insert Trial, remove, reposition, and reinsert the Single-Use Tibial Insert Trial. Ensure all excess debris (bone and soft tissue) is cleared from the Single-Use Universal Tibial Template.

- ▶ After trial reduction, the Single-Use Tibial Insert Trial can be removed by hand or with the aid of a blunt instrument.







**Figure 39**

### ***Tibial Keel Punching***

- Making sure the punch guide is in the unlocked position, assemble the Keel Punch Guide to the Single-Use Universal Tibial Template. Place the posterior tabs at a slight angle into the two locating slots toward the posterior portion of the Single-Use Universal Tibial Template. Allow the Keel Punch Guide to sit flat on the Single-Use Universal Tibial Template and push forward on the handle to lock the Keel Punch Guide to the Single-Use Universal Tibial Template.

## **Instrument Bar**



See Catalog  
**Triathlon Single-Use Instruments  
Femoral Prep Kit**

CR Universal Femoral Trial



See Catalog  
**Triathlon Single-Use Instruments  
Femoral Prep Kit**

PS Universal Femoral Trial



See Catalog  
**Triathlon Single-Use Instruments  
Tibial Kit**

Tibial Insert Trial



See Catalog  
**Triathlon Single-Use Instruments  
Tibial Kit**

Tibial Template



**6541-4-515**

Headed Nails - 1 1/2"



**6541-4-575**

Headed Nails - 3/4"



**6541-4-300**

Headed Nail Impactor/Extractor



**6633-7-605**

Pin Puller



Size 1, 2, 3 - **6541-2-713**

Size 4, 5, 6, 7, 8 - **6541-2-748**

Keel Punch Guide



**6541-2-807**

Tibial Alignment Handle

# Triathlon® Knee System

## Single-Use Instruments Surgical Protocol

### Tibial Preparation

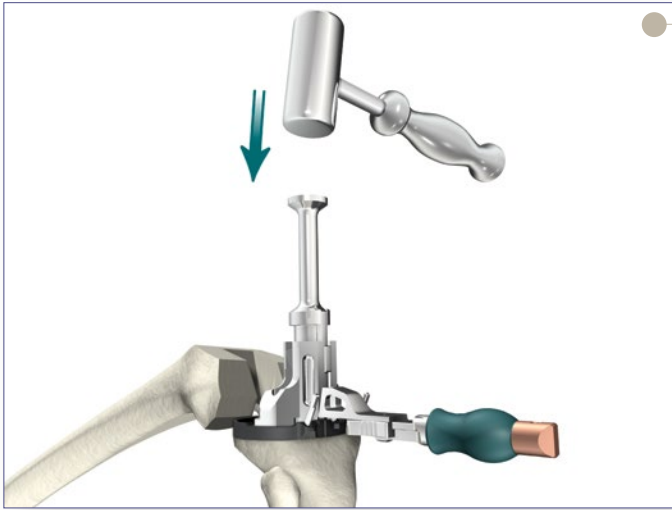


Figure 40

- ▶ Place the appropriate Keel Punch into the Keel Punch Guide. Use a mallet to impact the punch. Advance the Keel Punch until it seats fully in the Keel Punch Guide.

### Component Implantation

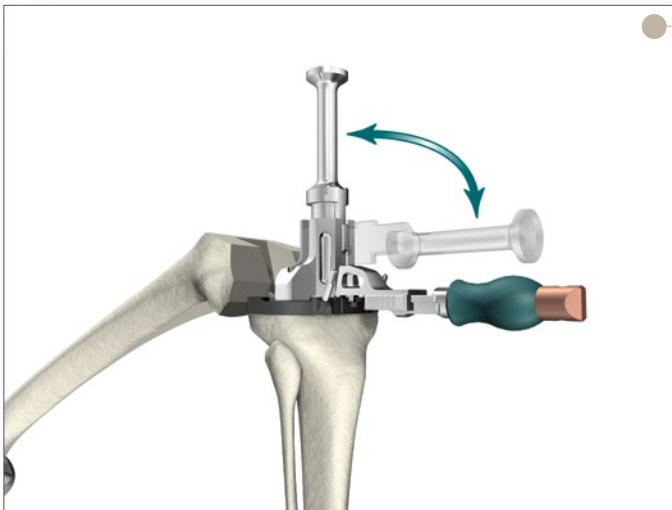


Figure 41

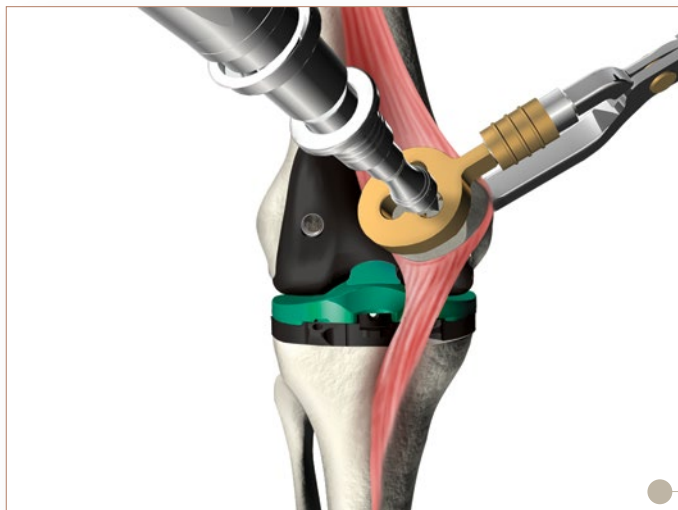
- ▶ To extract the Keel Punch, lift up on the Keel Punch handle and pull the handle down to cantilever the Keel Punch out of the tibia.
- ▶ Unlock and remove the Keel Punch Guide.
- ▶ Remove all pins and remove the Single-Use Universal Tibial Template (unless using again for patella trial assessment).

### Patellar Preparation

Remove all osteophytes and synovial insertions around the patella, and measure thickness using a caliper. After determining the depth of the cut with a caliper, affix the stylus in the appropriate slot to the patella resection guide, and capture the patella between the jaws of the saw guide. Using .050" sawblade, resect the patella.



Figure 42



**Figure 43**

- ▶ Choose the appropriate size patella template and insert into the Patella Clamp.
- ▶ Center the chosen patellar drill guide over the patella with the clamp perpendicular to the trochlear groove. Drill three fixation holes with the appropriate drill (Metal-backed patella or All Poly).
- ▶ If a cemented component is to be used, prepare the resected bone surfaces for bone cement application.



**Figure 44**

#### **Trial Assessment**

- ▶ Remove any residual cartilage and wash away all debris. Place correct size Patella Trial (Symmetric or Asymmetric) onto the prepared patella.
- ▶ Replace all Trials and assess patellar tracking by taking the knee through a ROM. The patella should track normally throughout the ROM without tendency for tilting or lateral subluxation.

## **Instrument Bar**

**6541-4-003**

Headless Pins - 3"



**6541-4-809**

Headless Pin Driver



**6541-4-801**

Universal Driver



**6541-4-515**

Headed Nails - 1 1/2"



**6541-4-575**

Headed Nails - 3/4"



Size 1, 2, 3 - **6541-2-713**

Size 4, 5, 6, 7, 8 - **6541-2-748**

Keel Punch Guide



Sizes 1, 2, 3 - **6541-2-013**

Sizes 4, 5, 6 - **6541-2-046**

Sizes 7, 8 - **6541-2-078**

Keel Punch



See Catalog  
**Triathlon Single-Use Instruments  
Tibial Kit**

Tibial Template



**6633-7-605**

Pin Puller

**Tibial  
Preparation**

**Component  
Implantation**

# Triathlon® Knee System

## Single-Use Instruments Surgical Protocol



Figure 45

### Component Implantation

- ▶ If modular Femoral Distal Fixation Pegs are desired in a PS knee, they are added at this point.
- ▶ Insert the tip of the 1/8" Hex Drive into the Modular Femoral Distal Fixation Peg and turn the Slip Torque Handle to tighten.

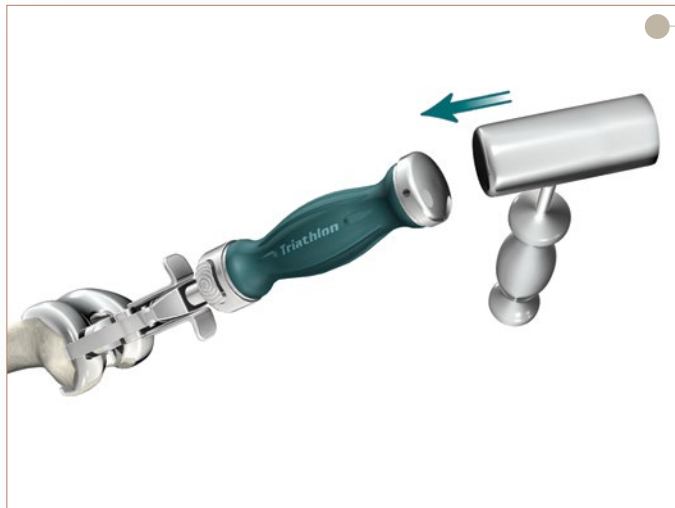


Figure 46

### PS or CR Femoral Component – Cemented/ Cementless

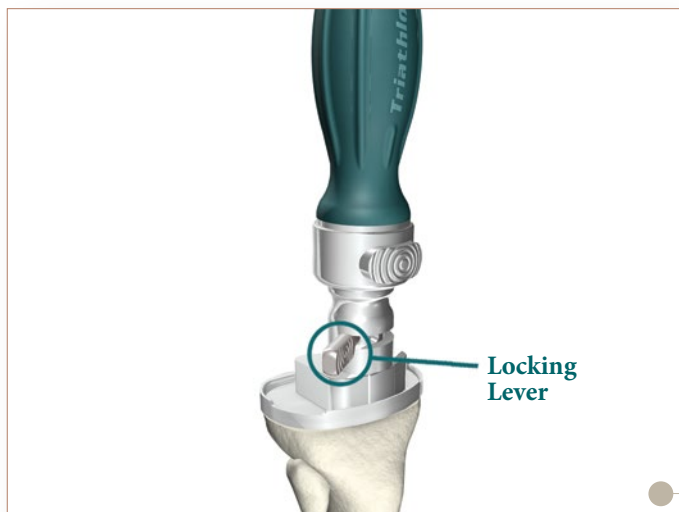
- ▶ Attach the Femoral Impactor Extractor to the Impaction Handle and attach to the appropriate size and side Femoral Component. Place the Femoral Component on the femur and impact it until fully seated.
- Posterior Stabilized Knee: If Modular Femoral Distal Fixation Pegs are to be used, assemble the pegs to the Femoral Component using the 1/8" Hex Drive and the Slip Torque Handle prior to implantation.



Figure 47

- ▶ The Femoral Flexion Impactor or the Femoral Impactor can be attached to the Impaction Handle to further seat the Femoral Component onto the prepared femur.

**Note:** Clear all excess bone cement (does not apply to cementless component).



**Figure 48**

### ***Tibial Component Implantation- Cemented/Cementless***

1. Connect the Tibial Baseplate Impactor Extractor to the Impaction Handle.
2. Introduce the Primary Tibial Baseplate onto the prepared tibia and impact until the baseplate is seated.
3. Unlock the locking lever and remove the assembly from the Primary Tibial Baseplate.
4. To further seat the baseplate, attach the Tibial Baseplate Impactor to the Impaction Handle. Impact until Baseplate is fully seated. If using bone cement, clear excess bone cement while maintaining baseplate position.

**6541-4-802**

1/8" Hex Drive



**6541-4-825**

Slip Torque Handle



**See Catalog**

Modular Femoral Distal Fixation Pegs



**6541-7-811**

MIS Femoral Flexion Impactor



## **Instrument Bar**

**6633-7-744**

Patella Clamp



**6633-7-738**

Patella Stylus



**6633-7-736**

Slotted Patella Resection Guide



**See Catalog**

Express Symmetric & Asymmetric Patella Drill Templates



**6541-3-524**

All-Poly Patella Drill w/Stop



**See Catalog**

Symmetric & Asymmetric Patella Trials



**See Catalog**

PS Femoral Component Cemented or Cementless



**See Catalog**

CR Femoral Component Cemented or Cementless



**6541-4-807**

Femoral Impactor Extractor



**6541-4-810**

Impaction Handle



# Triathlon® Knee System

## Single-Use Instruments Surgical Protocol

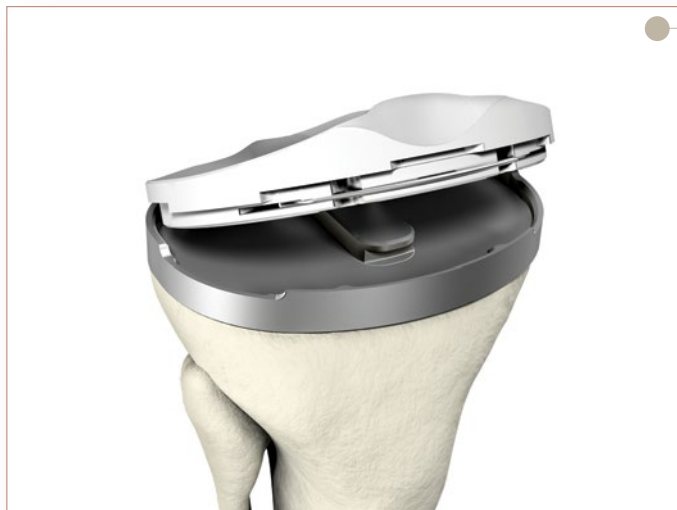


Figure 49

### *Tibial Insert Implantation*

1. Assemble the Tibial Insert to the Primary Tibial Baseplate.
2. You may use a trial insert for a final assessment of joint stability and range of motion if required. Assemble the Tibial Insert by distracting the joint and angling the insert posteriorly into baseplate.

#### **Tips:**

1. The posterior lip of the Tibial Insert must fit beneath the posterior Primary Tibial Baseplate wall lip.
2. Ensure there is no soft tissue or debris remaining on the baseplate.
3. Insert is fully seated once the locking wire locks under barbs on anterior/interior surface of baseplate.

**Note:** The Tibial Insert Impactor 6541-4-813, which is available in the standard Triathlon Primary Instrument set, may be used for the final seating of the Tibial Insert.

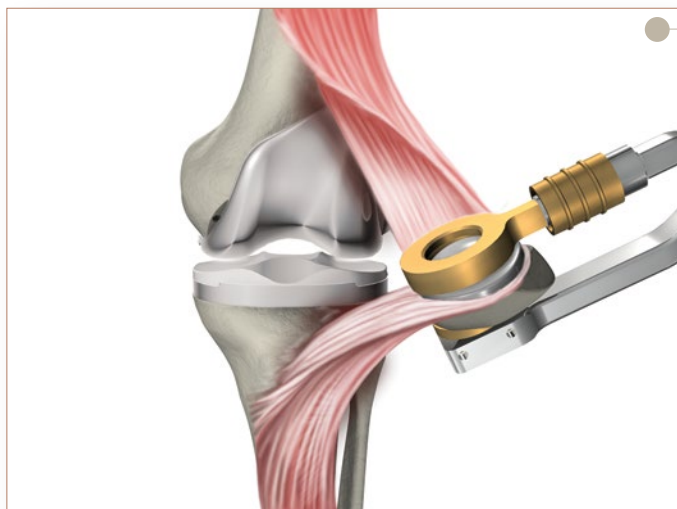
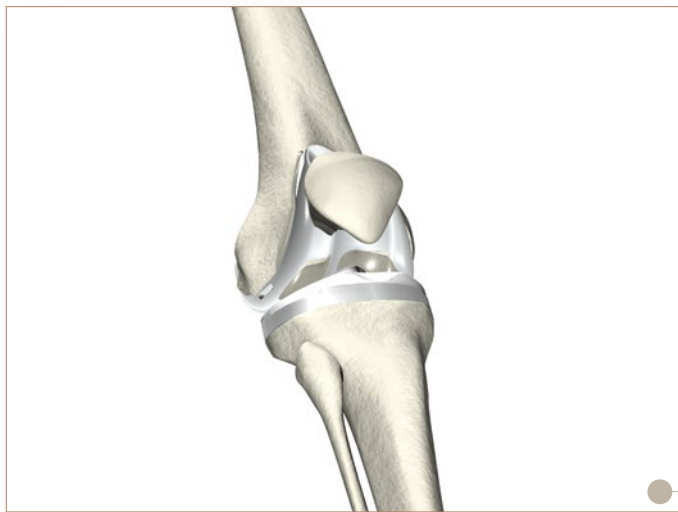


Figure 50

### *Patellar Component - Cemented/Cementless*

- ▶ Place the Patella Component onto the prepared patella, making certain the fixation peg holes are aligned to the corresponding holes.
- ▶ Seat the Patellar Component onto the prepared patella by clamping the Patella Clamp.
- ▶ Leave the assembly clamped to the patella while excess cement is cleared and polymerization is completed (cemented only).
- ▶ Remove the patella clamp.





**Figure 51**

- Assess the joint in flexion and extension.

## Closure

### *For Cemented Components*

- After cement polymerization and removal of all residual cement, thoroughly irrigate the joint. Close soft tissues in the normal layered fashion.

## Instrument Bar

**6541-4-810**

Impaction Handle



**See Catalog**

PS Femoral Component  
Cemented or Cementless



**See Catalog**

CR Femoral Component  
Cemented or Cementless



**6541-4-802**

1/8" Hex Drive



**6541-4-825**

Slip Torque Handle



**See Catalog**

Modular Femoral Distal Fixation Pegs



**6541-3-800E**

Express Cement Cap



**6541-4-805**

Baseplate Impactor/Extractor



**See Catalog**

Primary Tibial Baseplate  
Cemented or Cementless



**6633-7-744**

Patella Clamp



**See Catalog**

CR & PS Tibial Inserts



**See Catalog**

Symmetric & Asymmetric Patellas



# Triathlon® Knee System

## Single-Use Instruments Surgical Protocol

Catalog #	Description	Quantity in Kit
<b>Stryker Precision General Instruments Kit Contents</b>		
6541-2-013	Size 1-3 Keel Punch	1
6541-2-046	Size 4-6 Keel Punch	1
6541-2-078	Size 7-8 Keel Punch	1
6541-2-713	Size 1-3 Keel Punch Guide	1
6541-2-748	Size 4-8 Keel Punch Guide	1
6541-2-807	Tibial Alignment Handle	1
6541-4-300	Headed Nail Impactor/Extractor	1
6541-4-515	Headed Nails – 1 1/2"	2
6541-4-525	1/4 " Peg Drill	1
6541-4-575	Headed Nails – 3/4"	2
6541-4-709	Box Chisel	1
6541-4-801	Universal Driver	1
6541-4-003	Headless Pins – 3" †	4
6541-4-805	Baseplate Impactor/Extractor	1
	OR	
6541-4-812	Tibial Baseplate Impactor	1
6541-4-807	Femoral Impactor/Extractor	1
	OR	
6541-7-807	MIS Femoral Trial Extractor	1
6541-4-809	Headless Pin Driver	1
6541-4-810	Impaction Handle	1
6541-5-500	MIS AP Sizer Adjustment Housing	1
6541-5-508	MIS AP Sizer Body – Left	1
6541-5-509	MIS AP Sizer Body – Right	1
6541-5-510	MIS Femoral Stylus	1
6541-7-811	MIS Femoral Flexion Impactor	1
6633-7-605	Pin Puller	1
7551-0000	Blade Runner	1
5555-5102	General – Triathlon Stryker Precision Upper Tray	1
5555-5202	Removable Lid Case	1
Total Quantity		31

† Not included in standard configuration, but MUST be ordered separately.  
**Note:** Set List provided for Reference only. Not to be used for building kits.

Catalog #	Description	Quantity in Kit
<b>Patella Preparation &amp; Trialing Part Numbers</b>		
6633-7-736	Slotted Patella Resection Guide	1
6633-7-738	Patella Stylus	1
7650-1454	Patella Caliper	1
6541-3-524	All-Poly Patella Drill w/Stop	1
6541-3-617E	Express Asymmetric Patella Drill Template - 29mm	1
6541-3-618E	Express Asymmetric Patella Drill Template - 33mm	1
6541-3-619E	Express Asymmetric Patella Drill Template - 35mm	1
6541-3-620E	Express Asymmetric Patella Drill Template - 38mm	1
6541-3-621E	Express Asymmetric Patella Drill Template - 40mm	1
6541-3-627E	Express Symmetric Patella Drill Template - 27mm	1
6541-3-629E	Express Symmetric Patella Drill Template - 29mm	1
6541-3-631E	Express Symmetric Patella Drill Template - 31mm	1
6541-3-633E	Express Symmetric Patella Drill Template - 33mm	1
6541-3-636E	Express Symmetric Patella Drill Template - 36mm	1
6541-3-639E	Express Symmetric Patella Drill Template - 39mm	1
6541-3-800E	Express Cement Cap	1
6633-7-744	Patella Clamp	1
5550-T-278	Symmetric Patella 27mm x 8mm	1
5550-T-298	Symmetric Patella 29mm x 8mm	1
5550-T-319	Symmetric Patella 31mm x 9mm	1
5550-T-339	Symmetric Patella 33mm x 9mm	1
5550-T-360	Symmetric Patella 36mm x 10mm	1
5550-T-391	Symmetric Patella 39mm x 11mm	1
5551-T-299	Asymmetric Patella 29mm (S/I) x 33mm (M/L) x 9mm	1
5551-T-320	Asymmetric Patella 32mm (S/I) x 36mm (M/L) x 10mm	1
5551-T-350	Asymmetric Patella 35mm (S/I) x 39mm (M/L) x 10mm	1
5551-T-381	Asymmetric Patella 38mm (S/I) x 42mm (M/L) x 11mm	1
5551-T-401	Asymmetric Patella 40mm (S/I) x 44mm (M/L) x 11mm	1
6541-3-522	Metal-Backed Patella Drill w/Stop	1
6541-8-005E	Patellar Preparation - Upper Tray	1
6541-8-105E	Patellar Preparation - Lower Tray	1
6541-7-806	MIS 4:1 Impactor/Extractor	1
6541-9-000	Triathlon Case	1
Total Quantity		33

**Note:** Set List provided for Reference only. Not to be used for building kits.

# Triathlon® Knee System

## Single-Use Instruments Surgical Protocol

Catalog #	Description	Quantity in Kit
<b>Stryker Precision Non-Navigation Specific Instruments Kit Contents</b>		
6541-2-429	Tibial Stylus	1
6541-2-609	Tibial Alignment Ankle Clamp EM	1
6541-2-610	Tibial Alignment Distal Assembly EM	1
6541-2-704	Tibial Adjustment Housing – 0° Slope	1
6541-2-705	Tibial Adjustment Housing – 3° Slope	1
6541-4-516	5/16" IM Rod	1
6541-4-538	3/8" IM Drill	1
6541-4-800	T-Handle Driver	1
6541-5-601	MIS Femoral Adjustment Block	1
6541-5-629	MIS Femoral Alignment Guide	1
6541-5-721	MIS Distal Resection Guide – Left	1
6541-5-722	MIS Distal Resection Guide – Right	1
6541-5-723	MIS Modular Distal Capture	1
6541-6-611	MIS Proximal Rod EM	1
6541-6-700	MIS Uncaptured Tibial Resection Guide – Right	1
6541-6-701	MIS Uncaptured Tibial Resection Guide – Left	1
OR		
6541-6-702	MIS Captured Tibial Resection Guide – Right	1
6541-6-703	MIS Captured Tibial Resection Guide – Left	1
5555-5151	Non-Nav – Triathlon Stryker Precision Upper Tray	1
5555-5152	Non-Nav – Triathlon Stryker Precision Lower Tray	1
5555-5202	Removable Lid Case	1
Total Quantity		19

**Note:** Set List provided for Reference only. Not to be used for building kits.

Catalog #	Description	Quantity in Kit
<b>Stryker Precision Optional Instruments*</b>		
6541-4-518	1/8" Peg Drill	1
6541-4-602	Universal Alignment Rod	1
6541-4-802	1/8" Hex Drive	1
6541-4-803	Slap Hammer	1
6541-4-806	Universal Alignment Handle	1
6541-4-825	Slip Torque Handle	1
6541-7-808	MIS Femoral EM Alignment Tower	1
Total Quantity		7

\*Not included in standard configuration, but may be ordered separately.

<b>Triathlon Tibial Sizer Kit Part Number</b>		
5555-4600	Triathlon Stryker Precision Tibial Sizer Kit	1 kit
5555-4601	Tibial Sizer – # 1	1 per kit
5555-4602	Tibial Sizer – # 2	1 per kit
5555-4603	Tibial Sizer – # 3	1 per kit
5555-4604	Tibial Sizer – # 4	1 per kit
5555-4605	Tibial Sizer – # 5	1 per kit
5555-4606	Tibial Sizer – # 6	1 per kit
5555-4607	Tibial Sizer – # 7	1 per kit
5555-4608	Tibial Sizer – # 8	1 per kit

**Note:** Set List provided for Reference only. Not to be used for building kits.

# Triathlon® Knee System

## Single-Use Instruments Surgical Protocol

Catalog #	Description	Quantity in Kit
<b>Triathlon CR Single-Use Femoral Prep Kit Part Numbers</b>		
<b>5555-2201</b>	Triathlon® CR Single-Use Femoral Prep Kit Size 1	1 kit
<b>5555-2101</b>	4:1 Cutting Block Size 1	1 per kit
<b>5555-0601</b>	Universal Femoral Trial Size 1	1 per kit
<b>5555-2202</b>	Triathlon® CR Single-Use Femoral Prep Kit Size 2	1 kit
<b>5555-2102</b>	4:1 Cutting Block Size 2	1 per kit
<b>5555-0602</b>	Universal Femoral Trial Size 2	1 per kit
<b>5555-2203</b>	Triathlon® CR Single-Use Femoral Prep Kit Size 3	1 kit
<b>5555-2103</b>	4:1 Cutting Block Size 3	1 per kit
<b>5555-0603</b>	Universal Femoral Trial Size 3	1 per kit
<b>5555-2204</b>	Triathlon® CR Single-Use Femoral Prep Kit Size 4	1 kit
<b>5555-2104</b>	4:1 Cutting Block Size 4	1 per kit
<b>5555-0604</b>	Universal Femoral Trial Size 4	1 per kit
<b>5555-2205</b>	Triathlon® CR Single-Use Femoral Prep Kit Size 5	1 kit
<b>5555-2105</b>	4:1 Cutting Block Size 5	1 per kit
<b>5555-0605</b>	Universal Femoral Trial Size 5	1 per kit
<b>5555-2206</b>	Triathlon® CR Single-Use Femoral Prep Kit Size 6	1 kit
<b>5555-2106</b>	4:1 Cutting Block Size 6	1 per kit
<b>5555-0606</b>	Universal Femoral Trial Size 6	1 per kit
<b>5555-2207</b>	Triathlon® CR Single-Use Femoral Prep Kit Size 7	1 kit
<b>5555-2107</b>	4:1 Cutting Block Size 7	1 per kit
<b>5555-0607</b>	Universal Femoral Trial Size 7	1 per kit
<b>5555-2208</b>	Triathlon® CR Single-Use Femoral Prep Kit Size 8	1 kit
<b>5555-2108</b>	4:1 Cutting Block Size 8	1 per kit
<b>5555-0608</b>	Universal Femoral Trial Size 8	1 per kit

**Note:** Set List provided for Reference only. Not to be used for building kits.



Catalog #	Description	Quantity in Kit
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### Triathlon PS Single-Use Femoral Prep Kit Part Numbers

<b>5555-2251</b>	Triathlon® PS Single-Use Femoral Prep Kit Size 1	1 kit
<b>5555-2101</b>	4:1 Cutting Block Size 1	1 per kit
<b>5555-0801</b>	Universal Femoral Trial Size 1	1 per kit
<b>5555-1801</b>	PS Box Cutting Guide Size 1	1 per kit
<b>5555-2252</b>	Triathlon® PS Single-Use Femoral Prep Kit Size 2	1 kit
<b>5555-2102</b>	4:1 Cutting Block Size 2	1 per kit
<b>5555-0802</b>	Universal Femoral Trial Size 2	1 per kit
<b>5555-1802</b>	PS Box Cutting Guide Size 2	1 per kit
<b>5555-2253</b>	Triathlon® PS Single-Use Femoral Prep Kit Size 3	1 kit
<b>5555-2103</b>	4:1 Cutting Block Size 3	1 per kit
<b>5555-0803</b>	Universal Femoral Trial Size 3	1 per kit
<b>5555-1803</b>	PS Box Cutting Guide Size 3	1 per kit
<b>5555-2254</b>	Triathlon® PS Single-Use Femoral Prep Kit Size 4	1 kit
<b>5555-2104</b>	4:1 Cutting Block Size 4	1 per kit
<b>5555-0804</b>	Universal Femoral Trial Size 4	1 per kit
<b>5555-1804</b>	PS Box Cutting Guide Size 4	1 per kit
<b>5555-2255</b>	Triathlon® PS Single-Use Femoral Prep Kit Size 5	1 kit
<b>5555-2105</b>	4:1 Cutting Block Size 5	1 per kit
<b>5555-0805</b>	Universal Femoral Trial Size 5	1 per kit
<b>5555-1805</b>	PS Box Cutting Guide Size 5	1 per kit
<b>5555-2256</b>	Triathlon® PS Single-Use Femoral Prep Kit Size 6	1 kit
<b>5555-2106</b>	4:1 Cutting Block Size 6	1 per kit
<b>5555-0806</b>	Universal Femoral Trial Size 6	1 per kit
<b>5555-1806</b>	PS Box Cutting Guide Size 6	1 per kit
<b>5555-2257</b>	Triathlon® PS Single-Use Femoral Prep Kit Size 7	1 kit
<b>5555-2107</b>	4:1 Cutting Block Size 7	1 per kit
<b>5555-0807</b>	Universal Femoral Trial Size 7	1 per kit
<b>5555-1807</b>	PS Box Cutting Guide Size 7	1 per kit
<b>5555-2258</b>	Triathlon® PS Single-Use Femoral Prep Kit Size 8	1 kit
<b>5555-2108</b>	4:1 Cutting Block Size 8	1 per kit
<b>5555-0808</b>	Universal Femoral Trial Size 8	1 per kit
<b>5555-1808</b>	PS Box Cutting Guide Size 8	1 per kit

**Note:** Set List provided for Reference only. Not to be used for building kits.

# Triathlon® Knee System

## Single-Use Instruments Surgical Protocol

Catalog #	Description	Quantity in Kit
<b>Triathlon CR Single-Use Tibial Prep Kit Part Numbers</b>		
<b>5555-2311</b>	Triathlon® CR Single-Use Tibial Prep Kit Size 1	1 kit
5555-2301	Tibial Template Size 1	1 per kit
5555-2401	CR Tibial Insert Trial Size 1 – 9mm	1 per kit
5555-2402	CR Tibial Insert Trial Size 1 – 11mm	1 per kit
5555-2403	CR Tibial Insert Trial Size 1 – 13mm	1 per kit
5555-2404	CR Tibial Insert Trial Size 1 – 16mm	1 per kit
<b>5555-2312</b>	Triathlon® CR Single-Use Tibial Prep Kit Size 2	1 kit
5555-2302	Tibial Template Size 2	1 per kit
5555-2408	CR Tibial Insert Trial Size 2 – 9mm	1 per kit
5555-2409	CR Tibial Insert Trial Size 2 – 11mm	1 per kit
5555-2410	CR Tibial Insert Trial Size 2 – 13mm	1 per kit
5555-2411	CR Tibial Insert Trial Size 2 – 16mm	1 per kit
<b>5555-2313</b>	Triathlon® CR Single-Use Tibial Prep Kit Size 3	1 kit
5555-2303	Tibial Template Size 3	1 per kit
5555-2415	CR Tibial Insert Trial Size 3 – 9mm	1 per kit
5555-2416	CR Tibial Insert Trial Size 3 – 11mm	1 per kit
5555-2417	CR Tibial Insert Trial Size 3 – 13mm	1 per kit
5555-2418	CR Tibial Insert Trial Size 3 – 16mm	1 per kit
<b>5555-2314</b>	Triathlon® CR Single-Use Tibial Prep Kit Size 4	1 kit
5555-2304	Tibial Template Size 4	1 per kit
5555-2422	CR Tibial Insert Trial Size 4 – 9mm	1 per kit
5555-2423	CR Tibial Insert Trial Size 4 – 11mm	1 per kit
5555-2424	CR Tibial Insert Trial Size 4 – 13mm	1 per kit
5555-2425	CR Tibial Insert Trial Size 4 – 16mm	1 per kit
<b>5555-2315</b>	Triathlon® CR Single-Use Tibial Prep Kit Size 5	1 kit
5555-2305	Tibial Template Size 5	1 per kit
5555-2429	CR Tibial Insert Trial Size 5 – 9mm	1 per kit
5555-2430	CR Tibial Insert Trial Size 5 – 11mm	1 per kit
5555-2431	CR Tibial Insert Trial Size 5 – 13mm	1 per kit
5555-2432	CR Tibial Insert Trial Size 5 – 16mm	1 per kit
<b>5555-2316</b>	Triathlon® CR Single-Use Tibial Prep Kit Size 6	1 kit
5555-2306	Tibial Template Size 6	1 per kit
5555-2436	CR Tibial Insert Trial Size 6 – 9mm	1 per kit
5555-2437	CR Tibial Insert Trial Size 6 – 11mm	1 per kit
5555-2438	CR Tibial Insert Trial Size 6 – 13mm	1 per kit
5555-2439	CR Tibial Insert Trial Size 6 – 16mm	1 per kit
<b>5555-2317</b>	Triathlon® CR Single-Use Tibial Prep Kit Size 7	1 kit
5555-2307	Tibial Template Size 7	1 per kit
5555-2443	CR Tibial Insert Trial Size 7 – 9mm	1 per kit
5555-2444	CR Tibial Insert Trial Size 7 – 11mm	1 per kit
5555-2445	CR Tibial Insert Trial Size 7 – 13mm	1 per kit
5555-2446	CR Tibial Insert Trial Size 7 – 16mm	1 per kit
<b>5555-2318</b>	Triathlon® CR Single-Use Tibial Prep Kit Size 8	1 kit
5555-2308	Tibial Template Size 8	1 per kit
5555-2450	CR Tibial Insert Trial Size 8 – 9mm	1 per kit
5555-2451	CR Tibial Insert Trial Size 8 – 11mm	1 per kit
5555-2452	CR Tibial Insert Trial Size 8 – 13mm	1 per kit
5555-2453	CR Tibial Insert Trial Size 8 – 16mm	1 per kit

**Note:** Set List provided for Reference only. Not to be used for building kits.

Catalog #	Description	Quantity in Kit
<b>Triathlon PS Single-Use Tibial Prep Kit Part Numbers</b>		
5555-2351	Triathlon® PS Single-Use Tibial Prep Kit Size 1	1 kit
5555-2301	Tibial Template Size 1	1 per kit
5555-2601	PS Tibial Insert Trial Size 1 – 9mm	1 per kit
5555-2602	PS Tibial Insert Trial Size 1 – 11mm	1 per kit
5555-2603	PS Tibial Insert Trial Size 1 – 13mm	1 per kit
5555-2604	PS Tibial Insert Trial Size 1 – 16mm	1 per kit
5555-2352	Triathlon® PS Single-Use Tibial Prep Kit Size 2	1 kit
5555-2302	Tibial Template Size 2	1 per kit
5555-2608	PS Tibial Insert Trial Size 2 – 9mm	1 per kit
5555-2609	PS Tibial Insert Trial Size 2 – 11mm	1 per kit
5555-2610	PS Tibial Insert Trial Size 2 – 13mm	1 per kit
5555-2611	PS Tibial Insert Trial Size 2 – 16mm	1 per kit
5555-2353	Triathlon® PS Single-Use Tibial Prep Kit Size 3	1 kit
5555-2303	Tibial Template Size 3	1 per kit
5555-2615	PS Tibial Insert Trial Size 3 – 9mm	1 per kit
5555-2616	PS Tibial Insert Trial Size 3 – 11mm	1 per kit
5555-2617	PS Tibial Insert Trial Size 3 – 13mm	1 per kit
5555-2618	PS Tibial Insert Trial Size 3 – 16mm	1 per kit
5555-2354	Triathlon® PS Single-Use Tibial Prep Kit Size 4	1 kit
5555-2304	Tibial Template Size 4	1 per kit
5555-2622	PS Tibial Insert Trial Size 4 – 9mm	1 per kit
5555-2623	PS Tibial Insert Trial Size 4 – 11mm	1 per kit
5555-2624	PS Tibial Insert Trial Size 4 – 13mm	1 per kit
5555-2625	PS Tibial Insert Trial Size 4 – 16mm	1 per kit
5555-2355	Triathlon® PS Single-Use Tibial Prep Kit Size 5	1 kit
5555-2305	Tibial Template Size 5	1 per kit
5555-2629	PS Tibial Insert Trial Size 5 – 9mm	1 per kit
5555-2630	PS Tibial Insert Trial Size 5 – 11mm	1 per kit
5555-2631	PS Tibial Insert Trial Size 5 – 13mm	1 per kit
5555-2632	PS Tibial Insert Trial Size 5 – 16mm	1 per kit
5555-2356	Triathlon® PS Single-Use Tibial Prep Kit Size 6	1 kit
5555-2306	Tibial Template Size 6	1 per kit
5555-2636	PS Tibial Insert Trial Size 6 – 9mm	1 per kit
5555-2637	PS Tibial Insert Trial Size 6 – 11mm	1 per kit
5555-2638	PS Tibial Insert Trial Size 6 – 13mm	1 per kit
5555-2639	PS Tibial Insert Trial Size 6 – 16mm	1 per kit
5555-2357	Triathlon® PS Single-Use Tibial Prep Kit Size 7	1 kit
5555-2307	Tibial Template Size 7	1 per kit
5555-2643	PS Tibial Insert Trial Size 7 – 9mm	1 per kit
5555-2644	PS Tibial Insert Trial Size 7 – 11mm	1 per kit
5555-2645	PS Tibial Insert Trial Size 7 – 13mm	1 per kit
5555-2646	PS Tibial Insert Trial Size 7 – 16mm	1 per kit
5555-2358	Triathlon® PS Single-Use Tibial Prep Kit Size 8	1 kit
5555-2308	Tibial Template Size 8	1 per kit
5555-2650	PS Tibial Insert Trial Size 8 – 9mm	1 per kit
5555-2651	PS Tibial Insert Trial Size 8 – 11mm	1 per kit
5555-2652	PS Tibial Insert Trial Size 8 – 13mm	1 per kit
5555-2653	PS Tibial Insert Trial Size 8 – 16mm	1 per kit

**Note:** Set List provided for Reference only. Not to be used for building kits.

# Triathlon® Knee System

## Single-Use Instruments Surgical Protocol

Catalog #	Description	Sizes	Qty
<b>Triathlon CR Femoral Component - Cemented Part Numbers</b>			
5510-F-X01	Triathlon CR Femoral Component - Left Cemented	X = 1,2,3,4,5,6,7 and 8	1 Each Size
5510-F-X02	Triathlon CR Femoral Component - Right Cemented	X = 1,2,3,4,5,6,7 and 8	1 Each Size
<b>Triathlon CR Femoral Cementless Component - Beaded Part Numbers</b>			
5513-F-X01	Triathlon CR Femoral Component - Left Cementless Beaded	X = 1,2,3,4,5,6,7 and 8	1 Each Size
5513-F-X02	Triathlon CR Femoral Component - Right Cementless Beaded	X = 1,2,3,4,5,6,7 and 8	1 Each Size
<b>Triathlon CR Femoral Cementless Component - Beaded w/Peri-Apatite Part Numbers</b>			
5517-F-X01	Triathlon CR Femoral Component - Left Cementless Beaded w/PA	X = 1,2,3,4,5,6,7 and 8	1 Each Size
5517-F-X02	Triathlon CR Femoral Component - Right Cementless Beaded w/PA	X = 1,2,3,4,5,6,7 and 8	1 Each Size
<b>Triathlon PS Femoral Component - Cemented Part Numbers</b>			
5515-F-X01	Triathlon PS Femoral Component - Left Cemented	X = 1,2,3,4,5,6,7 and 8	1 Each Size
5515-F-X02	Triathlon PS Femoral Component - Right Cemented	X = 1,2,3,4,5,6,7 and 8	1 Each Size
<b>Triathlon PS Femoral Cementless Component - Beaded Part Numbers</b>			
5514-F-X01	Triathlon PS Femoral Component - Left Cementless Beaded	X = 1,2,3,4,5,6,7 and 8	1 Each Size
5514-F-X02	Triathlon PS Femoral Component - Right Cementless Beaded	X = 1,2,3,4,5,6,7 and 8	1 Each Size
<b>Triathlon PS Femoral Cementless Component - Beaded w/Peri-Apatite Part Numbers</b>			
5516-F-X01	Triathlon PS Femoral Component - Left Cementless Beaded w/PA	X = 1,2,3,4,5,6,7 and 8	1 Each Size
5516-F-X02	Triathlon PS Femoral Component - Right Cementless Beaded w/PA	X = 1,2,3,4,5,6,7 and 8	1 Each Size

Catalog #	Description	Sizes	Additional Instruments Required
<b>Primary Tibial Baseplate Options Part Numbers</b>			
5520-B-X00	Primary Tibial Baseplate - Cemented	X = 1,2,3,4,5,6,7 and 8	
5520-M-X00	Primary MIS Baseplate - Cemented	X = 1,2,3,4,5,6,7 and 8	6541-2-113 - Size 1-3 MIS Keel Punch
			6541-2-146 - Size 4-6 MIS Keel Punch
			6541-2-178 - Size 7-8 MIS Keel Punch
5523-B-X00	Primary Tibial Baseplate - Beaded	X = 1,2,3,4,5,6,7 and 8	6541-6-013 - Sizes 1-3 Cementless Keel Punch
5526-B-X00	Primary Tibial Baseplate - Beaded with Peri-Apatite	X = 1,2,3,4,5,6,7 and 8	6541-6-046 - Sizes 4-6 Cementless Keel Punch
			6541-6-078 - Sizes 7-8 Cementless Keel Punch
5521-B-X00	Universal Baseplate	X = 1,2,3,4,5,6,7 and 8	6543-7-527 - Boss Reamer
			6543-4-818 - Torque Wrench
5536-B-X00	Triathlon Tritanium Baseplate*	X = 1,2,3,4,5,6,7 and 8	6541-6-013 - Sizes 1-3 Cementless Keel Punch
			6541-6-046 - Sizes 4-6 Cementless Keel Punch
			6541-6-078 - Sizes 7-8 Cementless Keel Punch
			6541-2-64X - Tritanium Tibial Peg Drill Template (X= 1,2,3,4,5,6,7 and 8)
			6541-2-625 - Tritanium Tibial Peg Drill – 1/8"
			6541-2-626 - Tritanium Tibial Peg Drill – 7/32"

\* Please note: Each Triathlon Tritanium Baseplate will be provided packaged together with an Impactor Pad (6541-4-901) which is required during the tibial baseplate impaction step and discarded immediately after. For Triathlon Tritanium Baseplates, please refer to the Triathlon Tritanium Surgical Protocol for procedure specific and instrument specific information.

Catalog #	Description	Sizes	Qty
<b>Triathlon All-Polyethylene Tibial Component**</b>			
5535-A-X09	PS All-Polyethylene Tibial Component 9mm	X = 1, 2, 3, 4, 5, 6, 7 and 8	8
5535-A-X11	PS All-Polyethylene Tibial Component 11mm	X = 1, 2, 3, 4, 5, 6, 7 and 8	8
5535-A-X13	PS All-Polyethylene Tibial Component 13mm	X = 1, 2, 3, 4, 5, 6, 7 and 8	8
5535-A-X16	PS All-Polyethylene Tibial Component 16mm	X = 1, 2, 3, 4, 5, 6, 7 and 8	8
5534-A-X09	CS All-Polyethylene Tibial Component 9mm	X = 1, 2, 3, 4, 5, 6, 7 and 8	8
5534-A-X11	CS All-Polyethylene Tibial Component 11mm	X = 1, 2, 3, 4, 5, 6, 7 and 8	8
5534-A-X13	CS All-Polyethylene Tibial Component 13mm	X = 1, 2, 3, 4, 5, 6, 7 and 8	8
5534-A-X16	CS All-Polyethylene Tibial Component 16mm	X = 1, 2, 3, 4, 5, 6, 7 and 8	8

**Total Quantity 64**

\*\* For Triathlon All-Polyethylene Tibial Components, please refer to the Triathlon All-Polyethylene Tibial Component Surgical Protocol Addendum for procedure specific and instrument specific information.

# Triathlon® Knee System

## Single-Use Instruments Surgical Protocol

Catalog #	Description	Sizes	Qty
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### Triathlon CR Tibial Inserts - Conventional Polyethylene and X3 Part Numbers

Conventional Polyethylene Inserts			
5530-P-X09	Triathlon CR Tibial Insert - Conventional Polyethylene 9mm	X = 1,2,3,4,5,6,7 and 8	1 Each Size
5530-P-X11	Triathlon CR Tibial Insert - Conventional Polyethylene 11mm	X = 1,2,3,4,5,6,7 and 8	1 Each Size
5530-P-X13	Triathlon CR Tibial Insert - Conventional Polyethylene 13mm	X = 1,2,3,4,5,6,7 and 8	1 Each Size
5530-P-X16	Triathlon CR Tibial Insert - Conventional Polyethylene 16mm	X = 1,2,3,4,5,6,7 and 8	1 Each Size
5530-P-X19	Triathlon CR Tibial Insert - Conventional Polyethylene 19mm	X = 1,2,3,4,5,6,7 and 8	1 Each Size
X3 Inserts			
5530-G-X09	Triathlon CR Tibial Insert - X3 9mm	X = 1,2,3,4,5,6,7 and 8	1 Each Size
5530-G-X11	Triathlon CR Tibial Insert - X3 11mm	X = 1,2,3,4,5,6,7 and 8	1 Each Size
5530-G-X13	Triathlon CR Tibial Insert - X3 13mm	X = 1,2,3,4,5,6,7 and 8	1 Each Size
5530-G-X16	Triathlon CR Tibial Insert - X3 16mm	X = 1,2,3,4,5,6,7 and 8	1 Each Size
5530-G-X19	Triathlon CR Tibial Insert - X3 19mm	X = 1,2,3,4,5,6,7 and 8	1 Each Size

### Triathlon PS Tibial Inserts - Conventional Polyethylene and X3 Part Numbers

Conventional Polyethylene Inserts			
5532-P-X09	Triathlon PS Tibial Insert - Conventional Polyethylene 9mm	X = 1,2,3,4,5,6,7 and 8	1 Each Size
5532-P-X11	Triathlon PS Tibial Insert - Conventional Polyethylene 11mm	X = 1,2,3,4,5,6,7 and 8	1 Each Size
5532-P-X13	Triathlon PS Tibial Insert - Conventional Polyethylene 13mm	X = 1,2,3,4,5,6,7 and 8	1 Each Size
5532-P-X16	Triathlon PS Tibial Insert - Conventional Polyethylene 16mm	X = 1,2,3,4,5,6,7 and 8	1 Each Size
5532-P-X19	Triathlon PS Tibial Insert - Conventional Polyethylene 19mm	X = 1,2,3,4,5,6,7 and 8	1 Each Size
5532-P-X22	Triathlon PS Tibial Insert - Conventional Polyethylene 22mm	X = 1,2,3,4,5,6,7 and 8	1 Each Size
5532-P-X25	Triathlon PS Tibial Insert - Conventional Polyethylene 25mm	X = 1,2,3,4,5,6,7 and 8	1 Each Size
X3 Inserts			
5532-G-X09	Triathlon PS Tibial Insert - X3 9mm	X = 1,2,3,4,5,6,7 and 8	1 Each Size
5532-G-X11	Triathlon PS Tibial Insert - X3 11mm	X = 1,2,3,4,5,6,7 and 8	1 Each Size
5532-G-X13	Triathlon PS Tibial Insert - X3 13mm	X = 1,2,3,4,5,6,7 and 8	1 Each Size
5532-G-X16	Triathlon PS Tibial Insert - X3 16mm	X = 1,2,3,4,5,6,7 and 8	1 Each Size
5532-G-X19	Triathlon PS Tibial Insert - X3 19mm	X = 1,2,3,4,5,6,7 and 8	1 Each Size
5532-G-X22	Triathlon PS Tibial Insert - X3 22mm	X = 1,2,3,4,5,6,7 and 8	1 Each Size
5532-G-X25	Triathlon PS Tibial Insert - X3 25mm	X = 1,2,3,4,5,6,7 and 8	1 Each Size



Catalog #	Description	Sizes	Qty
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### Symmetric Patellas - Conventional Polyethylene and X3 Part Numbers

Conventional Polyethylene Patellas			
5550-L-278	Symmetric Patella - Conventional Polyethylene	S27mm x 8mm	1
5550-L-298	Symmetric Patella - Conventional Polyethylene	S29mm x 8mm	1
5550-L-319	Symmetric Patella - Conventional Polyethylene	S31mm x 9mm	1
5550-L-339	Symmetric Patella - Conventional Polyethylene	S33mm x 9mm	1
5550-L-360	Symmetric Patella - Conventional Polyethylene	S36mm x 10mm	1
5550-L-391	Symmetric Patella - Conventional Polyethylene	S39mm x 11mm	1

X3 Patellas			
5550-G-278	Symmetric Patella - X3	S27mm x 8mm	1
5550-G-298	Symmetric Patella - X3	S29mm x 8mm	1
5550-G-319	Symmetric Patella - X3	S31mm x 9mm	1
5550-G-339	Symmetric Patella - X3	S33mm x 9mm	1
5550-G-360	Symmetric Patella - X3	S36mm x 10mm	1
5550-G-391	Symmetric Patella - X3	S39mm x 11mm	1

Tritanium Metal-Backed Patellas†			
5556-L-319	Symmetric Patella with Tritanium	S31mm x 9mm	1
5556-L-339	Symmetric Patella with Tritanium	S33mm x 9mm	1
5556-L-360	Symmetric Patella with Tritanium	S36mm x 10mm	1
5556-L-391	Symmetric Patella with Tritanium	S39mm x 11mm	1

### Asymmetric Patellas - Conventional Polyethylene and X3 Part Numbers

Conventional Polyethylene Patellas			
5551-L-299	Asymmetric Patella - Conventional Polyethylene	A29mm (S/I*) x 9mm	1
5551-L-320	Asymmetric Patella - Conventional Polyethylene	A32mm (S/I*) x 10mm	1
5551-L-350	Asymmetric Patella - Conventional Polyethylene	A35mm (S/I*) x 10mm	1
5551-L-381	Asymmetric Patella - Conventional Polyethylene	A38mm (S/I*) x 11mm	1
5551-L-401	Asymmetric Patella - Conventional Polyethylene	A40mm (S/I*) x 11mm	1

X3 Patellas			
5551-G-299	Asymmetric Patella - X3	A29mm (S/I*) x 9mm	1
5551-G-320	Asymmetric Patella - X3	A32mm (S/I*) x 10mm	1
5551-G-350	Asymmetric Patella - X3	A35mm (S/I*) x 10mm	1
5551-G-381	Asymmetric Patella - X3	A38mm (S/I*) x 11mm	1
5551-G-401	Asymmetric Patella - X3	A40mm (S/I*) x 11mm	1

Tritanium Metal-Backed Patellas†			
5552-L-299	Asymmetric Patella with Tritanium	A29mm (S/I*) x 9mm	1
5552-L-320	Asymmetric Patella with Tritanium	A32mm (S/I*) x 10mm	1
5552-L-350	Asymmetric Patella with Tritanium	A35mm (S/I*) x 10mm	1
5552-L-381	Asymmetric Patella with Tritanium	A38mm (S/I*) x 11mm	1
5552-L-401	Asymmetric Patella with Tritanium	A40mm (S/I*) x 11mm	1

\* S/I - Superior/Inferior

† For Tritanium Metal-Backed Patellas, please refer to the Triathlon Tritanium Surgical Protocol for procedure specific and instrument specific information.

# Triathlon® Knee System

## Single-Use Instruments Surgical Protocol

Catalog #	Description
<b>Modular Femoral Distal Fixation Peg Part Numbers</b>	
5575-X-000	Modular Femoral Distal Fixation Peg (2 per pack)
<b>Triathlon PS Box Preparation (Optional) Part Numbers</b>	
6541-5-212	Sizes 1-2 Triathlon PS Femoral Finishing Punch
6541-5-234	Sizes 3-4 Triathlon PS Femoral Finishing Punch
6541-5-256	Sizes 5-6 Triathlon PS Femoral Finishing Punch
6541-5-278	Sizes 7-8 Triathlon PS Femoral Finishing Punch
6541-5-814	Sizes 1-4 Triathlon PS Femoral Box Trial/Protector
6541-5-858	Sizes 5-8 Triathlon PS Femoral Box Trial/Protector
6541-8-122	Triathlon PS Box Preparation Sizes 1-8 Tray

**Note:** Set List provided for Reference only. Not to be used for building kits.

## Femoral Component/ Insert Compatibility

Size Matching: One up, one down, e.g., size 5 femur with size 4 or 6 insert/ baseplate.

**Note:** Cementless implants are not to be used with cement.

	Femoral Components	Insert Type			
		CR	CS	PS	TS
Cementless	CR Cemented	✓	✓	No	No
	PS Cemented	No	✓	✓	✓
	TS Cemented	No	No	✓	✓
	CR Beaded	✓	✓	No	No
	PS Beaded	No	No	✓	No
	CR Beaded with PA	✓	✓	No	No
	PS Beaded with PA	No	No	✓	No

## Femoral Component/ Patella Compatibility

Size Matching: Every patella articulates with every femur due to a common radius across all sizes.

	Femoral Components	Patella Type			
		Asymmetric	Asymmetric Metal Backed	Symmetric Metal Backed	Symmetric
Cementless	CR Cemented	✓	✓	✓	✓
	PS Cemented	✓	✓	✓	✓
	TS Cemented	✓	✓	✓	✓
	CR Beaded	✓	✓	✓	✓
	PS Beaded	✓	✓	✓	✓
	CR Beaded with PA	✓	✓	✓	✓
	PS Beaded with PA	✓	✓	✓	✓

## Tibial Insert/Baseplate Compatibility

Size Matching: Size Specific, e.g., size 4 insert to be used only with size 4 baseplate.

**Note:** TS insert can only be used with the cemented universal baseplate.

	Tibial Baseplates	Insert Type			
		CR	CS	PS	TS
Cementless	Cemented Cruciform	✓	✓	✓	No
	Cemented Universal	✓	✓	✓	✓
	Beaded Cruciform	✓	✓	✓	No
	Beaded Screw Fix	✓	✓	✓	No
	Beaded with PA Cruciform	✓	✓	✓	No
	Beaded with PA Screw Fix	✓	✓	✓	No
	Tritanium	✓	✓	✓	No

## Triathlon TS Augments

Distal Augments are for use with both the medial and lateral portions of the side indicated, e.g. #4 right is used for medial and lateral compartments on a right femur.

Posterior Augments are universal size specific, e.g. size 4 posterior augments are for the size 4 femur.

Tibial Augments are size specific and come in left medial/right lateral or right medial/left lateral configurations.



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