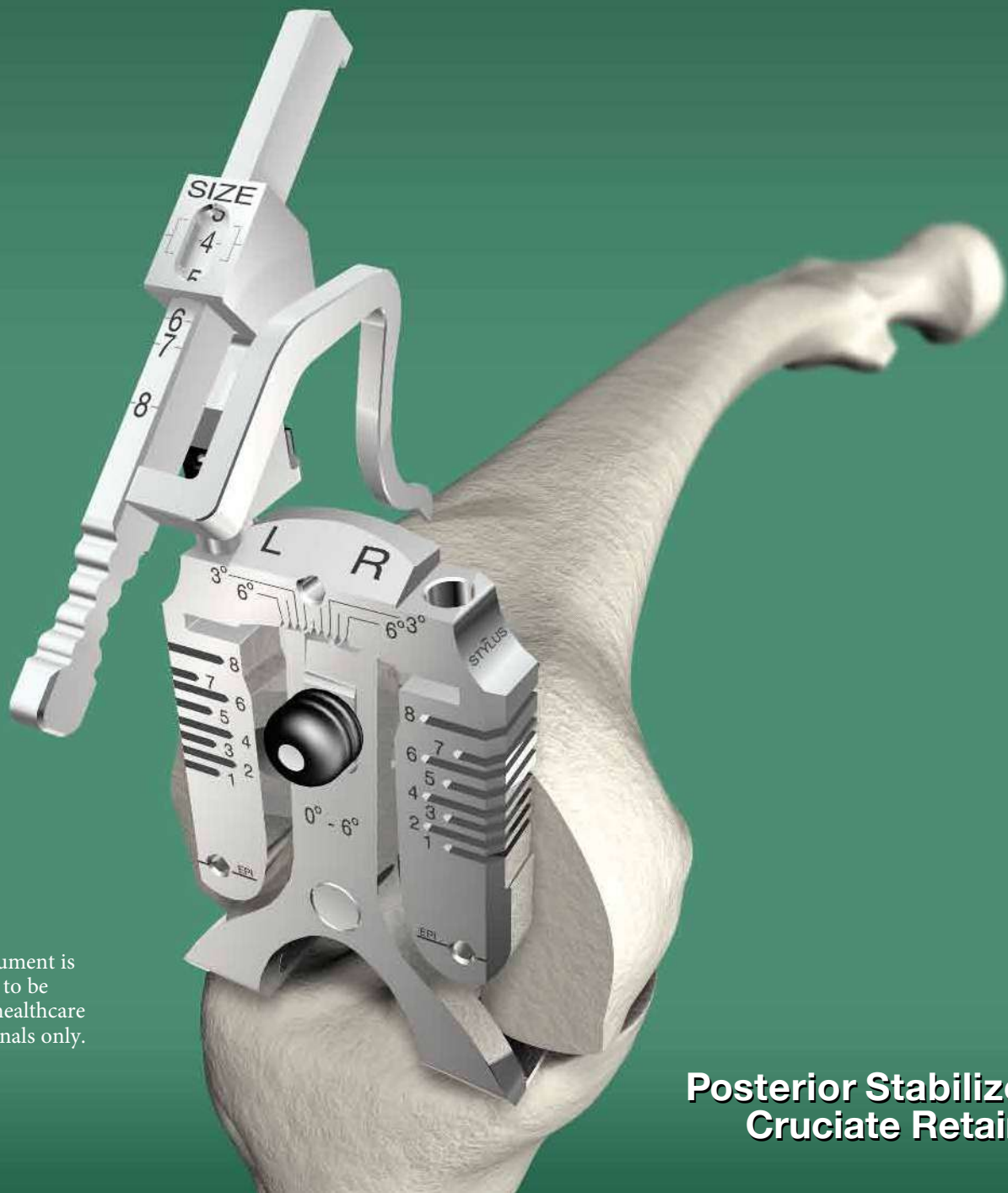


# Triathlon® Knee System Surgical Protocol



This document is intended to be used by healthcare professionals only.

**Posterior Stabilized &  
Cruciate Retaining**



# Triathlon Knee System

## Surgical Protocol

|   |           |
|---|-----------|
| <b>Indications</b> .....                                  | <b>2</b>  |
| <b>Exposure</b> .....                                     | <b>4</b>  |
| <b>Femoral Preparation</b> .....                          | <b>4</b>  |
| Femoral Intramedullary Alignment .....                    | 4         |
| Femoral Sizing .....                                      | 6         |
| Femoral Anterior, Posterior, and Chamfer Resections ..... | 8         |
| <b>PS Box Preparation</b> .....                           | <b>9</b>  |
| Femoral Trial Assessment .....                            | 14        |
| <b>Tibial Preparation</b> .....                           | <b>16</b> |
| Option 1 – Extramedullary Referencing .....               | 16        |
| Flexion/Extension Alignment .....                         | 16        |
| Varus/Valgus Alignment .....                              | 17        |
| Tibial Slope Adjustment .....                             | 17        |
| Rotational Alignment .....                                | 17        |
| Option 2 – Intramedullary Referencing .....               | 18        |
| Rotational Alignment .....                                | 18        |
| Varus/Valgus Alignment .....                              | 19        |
| Establish Tibial Resection Level .....                    | 20        |
| Tibial Resection .....                                    | 20        |
| Tibial Component Sizing .....                             | 21        |
| Tibial Keel Punching .....                                | 22        |
| <b>Patellar Preparation</b> .....                         | <b>24</b> |
| Trial Assessment .....                                    | 24        |
| <b>Component Implantation</b> .....                       | <b>25</b> |
| Femoral Component - Cemented/Cementless .....             | 25        |
| Primary Tibial Baseplate - Cemented/Cementless .....      | 26        |
| Tibial Insert .....                                       | 26        |
| Patellar Component - Cemented/Cementless .....            | 26        |
| <b>Closure</b> .....                                      | <b>27</b> |
| <b>Catalog</b> .....                                      | <b>28</b> |

## Acknowledgments

Stryker Orthopaedics wishes to thank the global Triathlon Knee System Surgeon Panel for their dedication to the development and refinement of the Triathlon Knee System and instrumentation.



# Triathlon Knee System

## Surgical Protocol



### *Indications*

General Total Knee Arthroplasty (TKA) Indications include:

- Painful, disabling joint disease of the knee resulting from: non-inflammatory 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.

### *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 post-operative 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.
- Obesity. An overweight or obese patient can produce loads on the prosthesis which can lead to failure of the fixation of the device or to failure of the device itself.

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.

# Surgical Procedure

# Triathlon Knee System

## Surgical Protocol

### Femoral Preparation



Figure 1

### Exposure

- ▶ A standard anterior mid-line incision is utilized. Any previous incision can be used or incorporated to decrease the risk of skin slough.
- ▶ The capsule is entered through a medial parapatellar approach.

### 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 mid-line of the distal femur.
- ▶ Attach the 3/8" IM Drill to the Universal Driver and drill into the IM canal. 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.

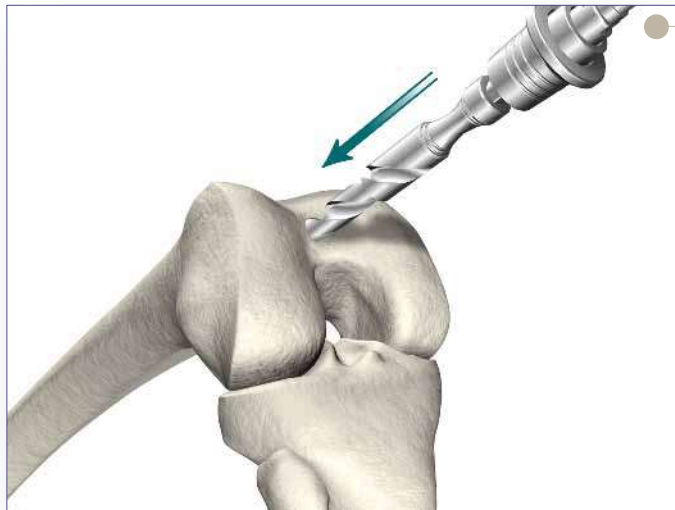


Figure 2

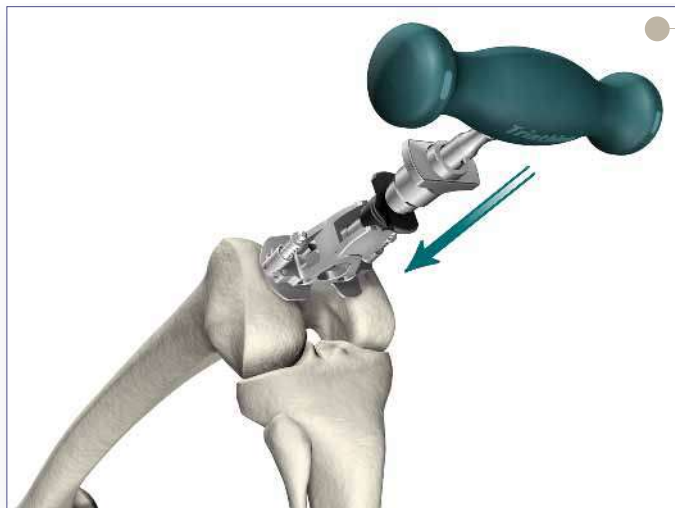
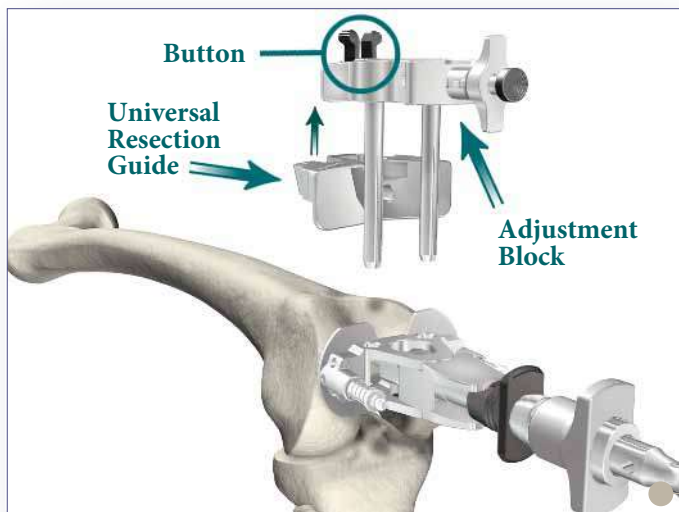


Figure 3

- ▶ Attach the T-Handle Driver to the 5/16" IM Rod. Insert the IM Rod into the Femoral Alignment Guide. The Femoral Alignment Guide is designed for use on either the left or right knee and may be set to 5, 6 or 7° of valgus. Set the instrument to the desired angle by pulling back on the black knob of the 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.



**Figure 4**

- ▶ Snap the Universal Resection Guide onto the Adjustment Block and insert the posts of the Adjustment Block into the two holes in the Femoral Alignment Guide.
- ▶ Place the Femoral Alignment Guide in contact with the more prominent distal femoral condyle and align the guide in neutral position.
- ▶ Impact the distal captured pins in the Femoral Alignment Guide to aid in stabilization.

**Note:** Impacting a distal capture pin that does not make contact with the femoral condyle may result in a change in the alignment setting.

- ▶ Pin the Distal Resection Guide to the anterior 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



**6541-1-657**  
Femoral Alignment Guide



**6541-1-721**  
Universal Resection Guide



**6541-1-600**  
Adjustment Block



# Triathlon Knee System

## Surgical Protocol

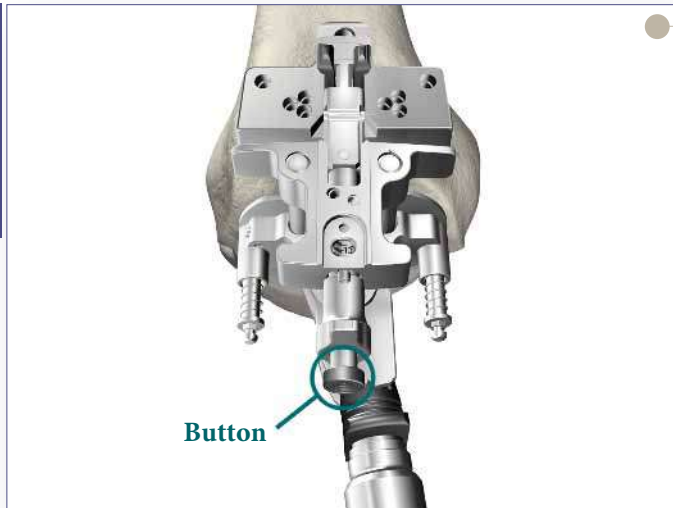


Figure 5

- ▶ The Adjustment Block allows for an 8mm (the distal thickness of the femoral component) and 10mm (used to aid in the correction of a flexion contracture) resection level. Press the black button on the end of the Adjustment Block and pull to set the resection to the desired level.
- ▶ Pin the Universal Resection Guide to the anterior femur.

**Note:** If the medial “O” pin hole is too close to the edge of the bone (on smaller femurs), use the holes marked “2” which are closer to the center of the bone.



Figure 6

- ▶ After the Universal Resection Guide is pinned in place, remove the IM Rod. The Femoral Alignment Guide and the Adjustment Block may be removed by squeezing the black tabs on the Adjustment Block.
- ▶ The distal femoral resection is made. An optional Modular Capture - may be attached to the Universal Resection Guide. Squeeze the black tabs on the Modular Capture - Distal Resection to insert into the Universal Resection Guide. When using a modular capture, a .050” (1.25mm) blade is used.
- ▶ Remove the Modular Capture and check the resection for flatness. Remove the Universal Resection Guide.

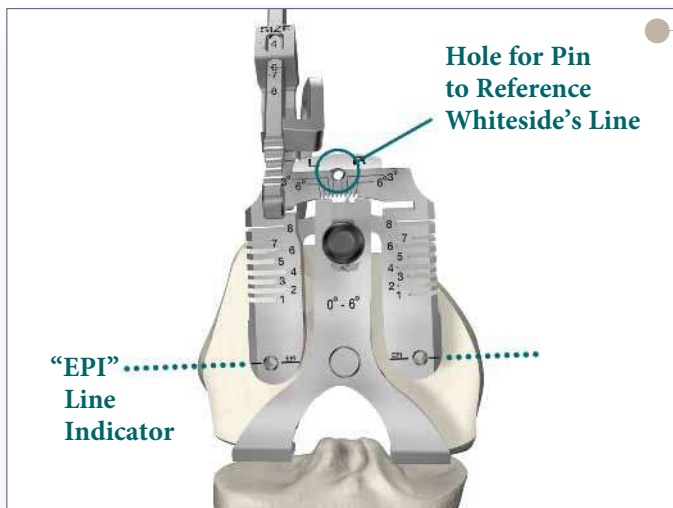


Figure 7

### Femoral Sizing

- ▶ Assemble the Femoral Sizer with the Femoral Stylus in the appropriate lateral hole, setting the stylus length to an approximate size. Set the rotation to “LEFT” for a left leg and “RIGHT” for a right leg and adjust to the desired amount of external rotation.
- ▶ A secondary rotational check can be made by lining up the epicondyles with the reference lines marked “EPI”. A tertiary check is to assess Whiteside’s line with a pin through the hole in the top of the guide.
- ▶ In the event of a hypoplastic femoral condyle: Pin the Femoral Sizer through the EPI hole on the unaffected side for stability. Rotate the Femoral Sizer and assess rotation using the rotational checks mentioned above.





**Figure 8**

- Position the assembly flush on the resected distal femur, sliding the feet of the Femoral Sizer under the posterior condyles. The Femoral Stylus point should be placed on the lateral cortex.
- It is important that the Femoral Stylus point rest on bone and not on soft tissue.



**Figure 9**

- The size is determined by the position of the scribe mark on the Femoral Stylus shaft within the sizing window.

## Instrument Bar



**6541-1-600**  
Adjustment Block



**6541-1-657**  
Femoral Alignment Guide



**6541-1-721**  
Universal Resection Guide



**6541-4-806**  
Universal Alignment Handle



**6541-4-602**  
Universal Alignment Rods



**6541-1-723**  
Modular Capture - Distal Resection



**6541-1-603**  
Femoral Sizer



**6541-1-605**  
Femoral Stylus



**6541-4-003**  
Headless Pins - 3"

# Triathlon Knee System

## Surgical Protocol

### Femoral Preparation

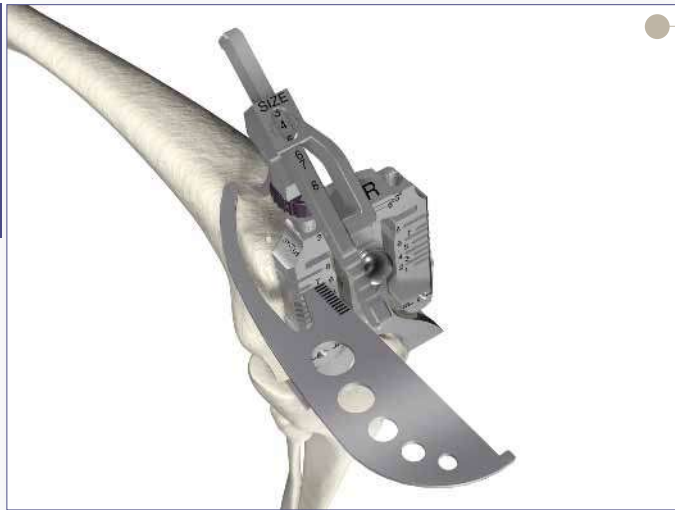


Figure 10

- ▶ It is recommended that the anterior resection level be checked to further confirm the correct size by sliding a Bladerunner through the sizing guide's size-specific anterior slots and assessing the resection.
- ▶ 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".
- ▶ Locate the fixation pegs of the appropriate size Express 4:1 Cutting Block into the pin holes created on the distal femur.

**Note:** Check run-out of the anterior cut. If there is a pronounced positive step, consider selecting the next smaller size 4:1 Cutting Block if the anterior femur preparation is not adequate.

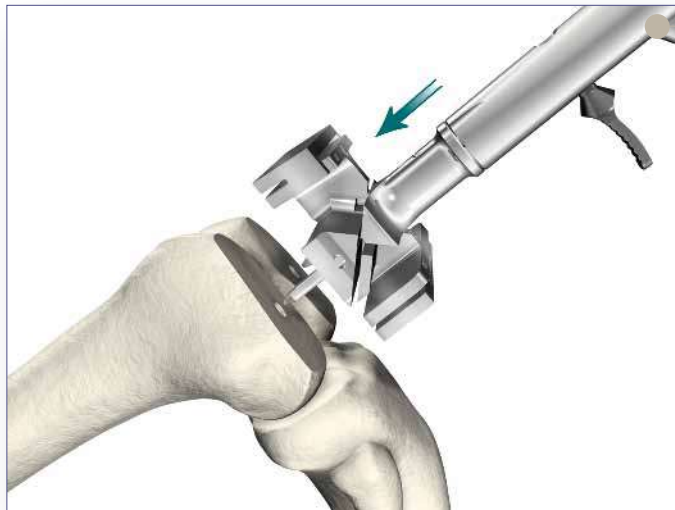


Figure 11

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

- ▶ Complete the remaining four femoral bone resections.
- ▶ The use of a .050" (1.25mm) thick sawblade 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:** Cutting the anterior chamfer later helps stabilize the cutting guide.

- ▶ Remove the 4:1 Cutting Block.



Figure 12

## PS Box Preparation

- ▶ If it is determined that a PS femoral component will be used, the distal femur must be prepared for the PS box.
- ▶ Place the appropriate sized PS Box Cutting Guide on the resected distal femur.

**Note:** The appropriate size is the same as the size 4-in-1 cutting block that was used to prepare the distal femur. For example, if a size 3 “4-in-1 Cutting Block” was used to prepare the distal femur, select the size 3 PS Box Cutting Guide.

- ▶ M/L placement of the guide is based primarily on best coverage of the distal bone and alignment of the box opening with the intercondylar notch.

**Optional surgical tip:** Use a CR Femoral Trial of the same size to identify the preferred M/L position of the PS Box Cutting Guide.

- Place the appropriate sized CR Femoral Trial on to the prepared femur.
  - Adjust the M/L placement of the Femoral Trial to achieve the desired position of the femoral component.
  - Using a surgical marketing pen, mark the location of the distal peg prep holes through the CR Femoral Trial.
  - Remove the CR Femoral Trial and line-up the PS Box Cutting Guide on the distal femur with the previously marked holes.
- ▶ Pin the PS Box Cutting Guide in place using Headless Pins.

**Optional surgical tip:** To provide the appropriate anterior/posterior and medial/lateral stability with a minimal number of pins, place one pin distally and one pin anteriorly (or both pins distally).

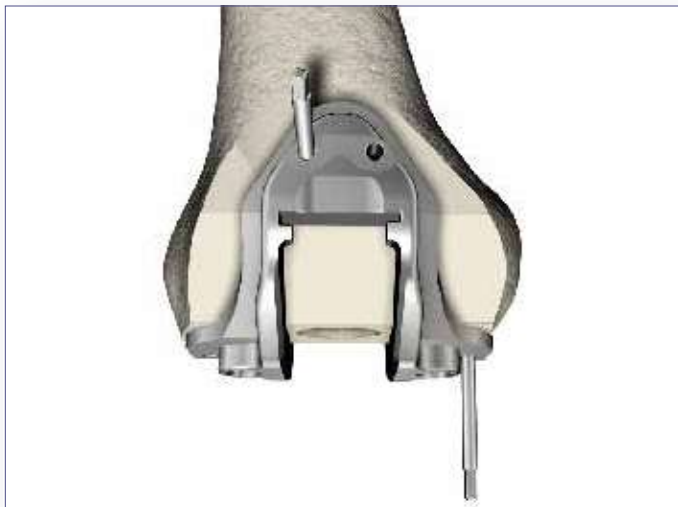


Figure 13

## Instrument Bar



6541-1-603  
Femoral Sizer



6541-1-605  
Femoral Stylus



6541-4-400  
Bladerunner



See Catalog  
Express 4:1 Cutting Block



6541-7-806  
MIS 4:1 Impactor/Extractor

- # 1 - 6541-5-711
- # 2 - 6541-5-712
- # 3 - 6541-5-713
- # 4 - 6541-5-714
- # 5 - 6541-5-715
- # 6 - 6541-5-716
- # 7 - 6541-5-717
- # 8 - 6541-5-718



MIS PS Box Cutting Guide



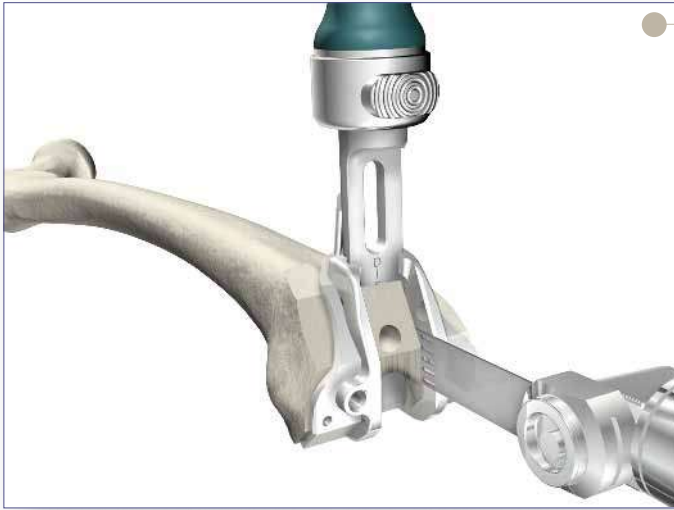
6541-4-003  
Headless Pins - 3"



See Catalog  
CR Femoral Trial

# Triathlon Knee System

## Surgical Protocol



*Figure 14*

- There are two ways to continue the PS box preparation:

**Option A: Chisel and Saw:** Cut the cortical rim on both sides of the posterior-most portion of the intercondylar notch using the oscillating saw. Assemble the Box Chisel and insert into the slot. Impact the Box Chisel with a mallet until seated to the stop. Leave the Box Chisel in place to act as a reference plane. Cut the medial and lateral edges of the box with an oscillating saw to complete the bone resection as shown in Figure 14. Avoid biasing the blade during resection for optimal bone conservation.



*Figure 15*

**Option B: Saw Only:** Use a reciprocating saw or a narrow oscillating saw through the proximal slot to resect the distal portion of the femur. An oscillating saw can be used to resect the medial and lateral borders of the intercondylar notch to the proximal portion of the cutting guide.

**Note:** After completion of options A or B, the surgeon may choose to use the optional and recommended Triathlon PS Femoral Finishing Punch to complete preparation of the box.

- Prior to trialing with a PS Femoral Trial, assure the box is prepared properly and remove all remaining bone from the prepared box.

## Instrument Bar

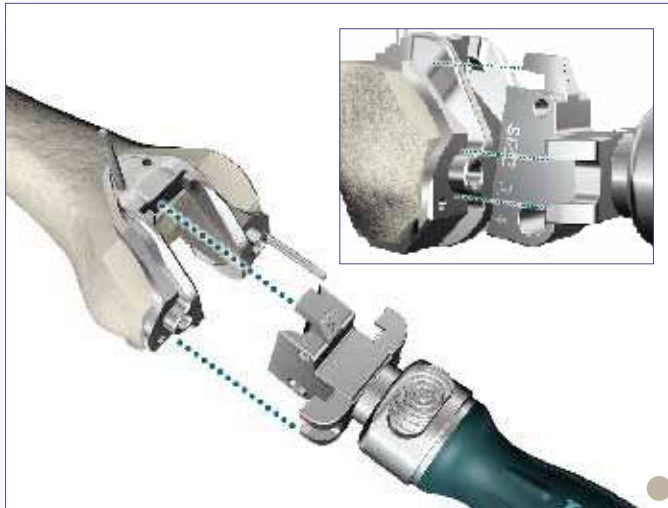


Figure 16

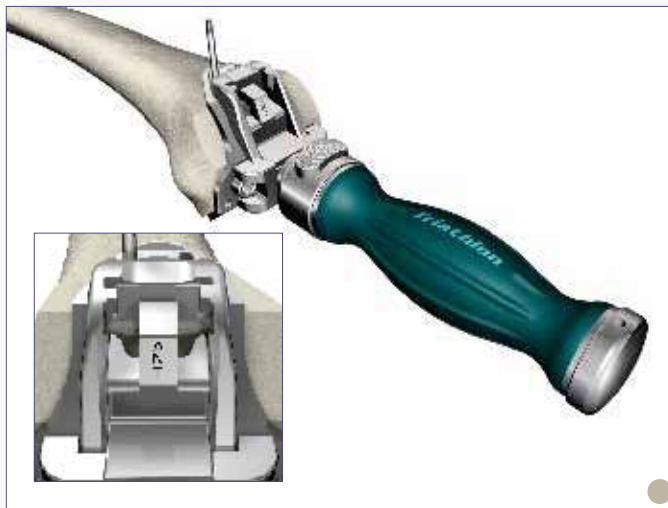


Figure 17

If the optional Triathlon PS Femoral Box Finishing Punch is chosen:

- ▶ The chisel should be fully removed from the PS Box Cutting Guide prior to using the Triathlon PS Femoral Box Finishing Punch.
- ▶ Secure the appropriate size Triathlon PS Femoral Box Finishing Punch to the Triathlon Impaction Handle. There are four Triathlon PS Femoral Box Finishing Punches (Size 1-2, Size 3-4, Size 5-6 and Size 7-8).
- ▶ Properly orient the Triathlon PS Femoral Box Finishing Punch, assuring the anterior side is facing upwards.
- ▶ Impact the Triathlon PS Femoral Box Finishing Punch through the PS Box Cutting Guide until properly seated. The Triathlon PS Femoral Box Finishing Punch is properly seated when the stop of the Finishing Punch is centered over the PS Box Cutting Guide drill holes. See Figures 17 & 18, which depicts the Triathlon PS Femoral Box Finishing Punch properly seated on the PS Box Cutting Guide. There should be a gap between the anterior nose of the Triathlon PS Femoral Box Finishing Punch and the PS Box Cutting Guide.

- # 1 - 6541-5-711
- # 2 - 6541-5-712
- # 3 - 6541-5-713
- # 4 - 6541-5-714
- # 5 - 6541-5-715
- # 6 - 6541-5-716
- # 7 - 6541-5-717
- # 8 - 6541-5-718

MIS PS Box Cutting Guide



6541-4-810

Impaction Handle



6541-4-709

Box Chisel



See Catalog

Triathlon PS Femoral Box Finishing Punch



See Catalog

PS Femoral Trial





# Triathlon Knee System

## Surgical Protocol



Figure 18

- ▶ Remove the Triathlon PS Femoral Box Finishing Punch with the Triathlon Slap Hammer.
- ▶ Remove pins and the PS Box Cutting Guide from the prepared distal femur.

**Note:** The Triathlon PS Femoral Box Finishing Punch is designed to be used with the PS Box Cutting Guide and should not be impacted onto the prepared distal femur without the PS Box Cutting Guide in place.

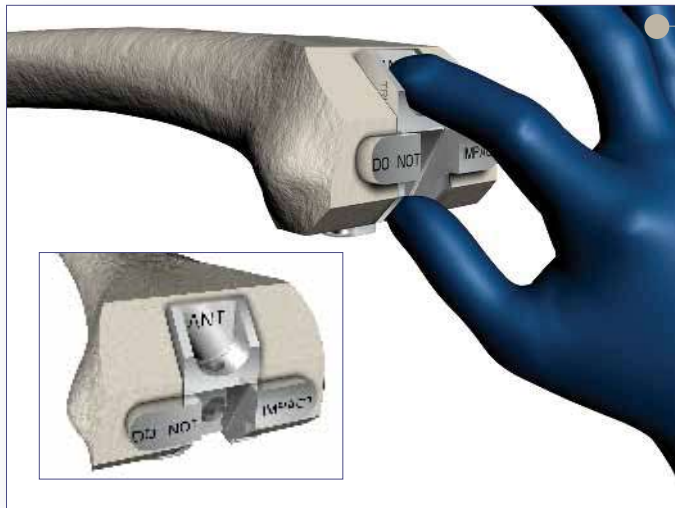


Figure 19

If the optional and recommended Triathlon PS Femoral Box Trial/Protector is chosen:

- ▶ Remove the PS Box Cutting Guide.
- ▶ Place by hand (**not through impaction**) the appropriate size Triathlon PS Femoral Box Trial/Protector into the prepared box to assure accuracy of the box preparation. There are two Triathlon PS Femoral Box Trial/Protectors (Size 1-4 and Size 5-8). See Figure 19 for proper orientation.
- ▶ The box trial/protector is fully seated when both the distal and posterior “wings” are flush with the bone.

**Note:** Triathlon PS Femoral Box Trial/Protector assesses the accuracy of M/L box width and box depth.

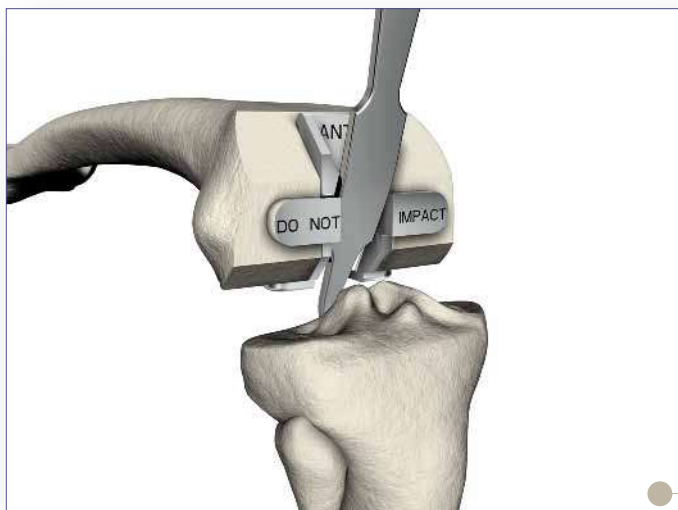


Figure 20

- ▶ To protect the prepared femoral box prior to trialing with a femoral component, place the Triathlon PS Femoral Box Trial/Protector into the prepared box by hand (**not through impaction**). Ensure the box trial is fully seated on the distal and posterior resections as described above in the box trialing step.
  - The Triathlon PS Femoral Box Trial/Protector features a slot in which a retractor can be placed to lever against the distal femur during tibial subluxation.
  - If preferred, select an extraction tool that fits into the retractor hole for ease of removal.
  - Remove the PS Femoral Box Trial/Protector prior to assembling and implanting the Triathlon PS femoral component.

## Instrument Bar

# 1 - 6541-5-711  
 # 2 - 6541-5-712  
 # 3 - 6541-5-713  
 # 4 - 6541-5-714  
 # 5 - 6541-5-715  
 # 6 - 6541-5-716  
 # 7 - 6541-5-717  
 # 8 - 6541-5-718



MIS PS Box Cutting Guide

See Catalog



Triathlon PS Femoral Box Finishing Punch

See Catalog



Triathlon PS Femoral Box Trial/Protector

6541-4-003

Headless Pins - 3"



6541-4-809

Headless Pin Driver



6541-4-810

Impaction Handle



6541-4-801

Universal Driver



# Triathlon Knee System

## Surgical Protocol

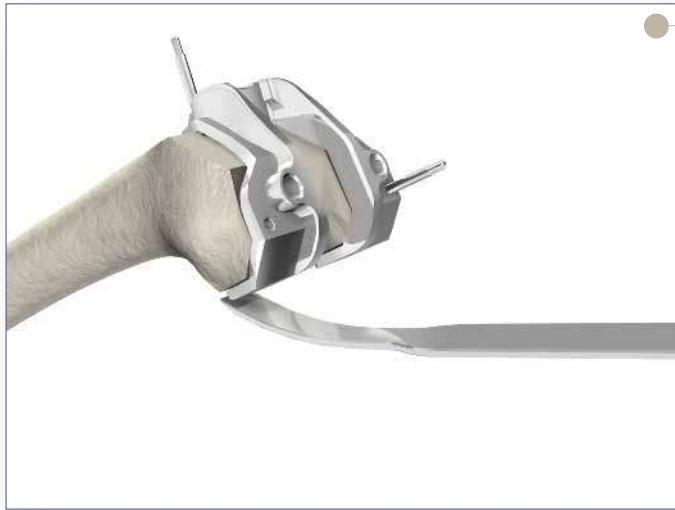


Figure 21

To avoid femoral component impingement and to improve flexion, all osteophytes beyond the posterior condyles as well as those medially and laterally may be removed with an osteotome.

**Note:** If it is difficult to reach the posterior osteophytes in a tight knee, the tibial resection can be made and then the osteophytes can more easily be removed.

### *Femoral Trial Assessment*

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

Assemble the appropriate size and side (Left/Right) PS or CR Femoral Trial to the Femoral Impactor/Extractor with the Impaction Handle.

Impact the 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.

Remove the Femoral Impactor/Extractor and Impaction Handle and assess the fit of the PS or CR Femoral Trial. Care must be taken to ensure that all of the osteophytes beyond the end of the posterior 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. Attach the Posterior Osteophyte Removal Tool to the Impaction Handle and remove posterior osteophytes.

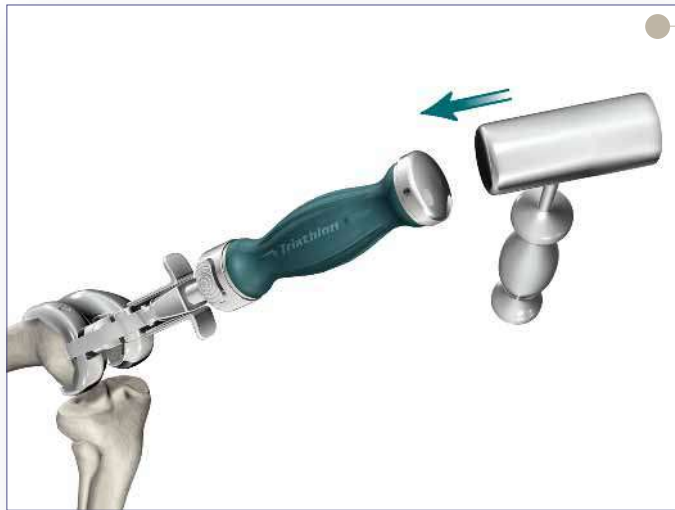


Figure 22

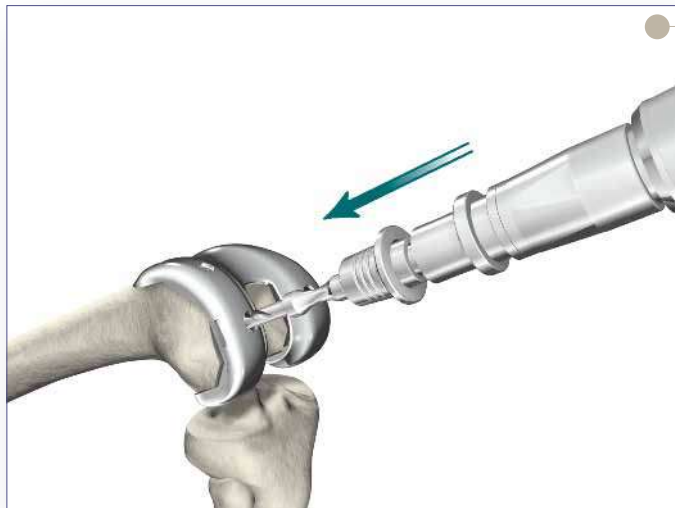
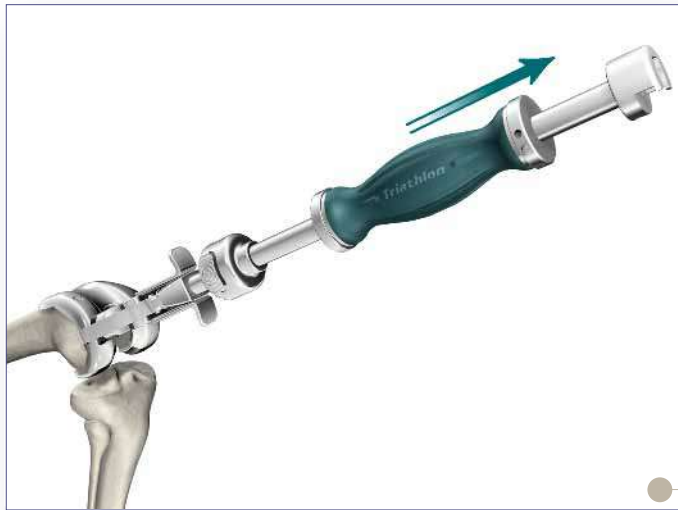


Figure 23

**Posterior Stabilized Knee:** If the Modular Femoral Distal Fixation Pegs are to be used, the location holes may be prepared at this stage using the 1/4" Peg Drill attached to the Universal Driver.

- The peg holes may also be prepared through the PS Box Cutting Guide.





**Figure 24**

- Attach the Femoral Impactor Extractor to the Slap Hammer and remove the PS or CR Femoral Trial from the femur.

## Instrument Bar

**6541-4-809**

Headless Pin Driver



**6541-4-810**

Impaction Handle



**6541-4-807**

Femoral Impactor/Extractor



**6541-4-801**

Universal Driver



**See Catalog**

CR Femoral Trial



**See Catalog**

PS Femoral Trial



**6541-4-525**

1/4" Peg Drill



**6541-4-803**

Slap Hammer



**6541-4-710**

Posterior Osteophyte Removal Tool



# Triathlon Knee System

## Surgical Protocol

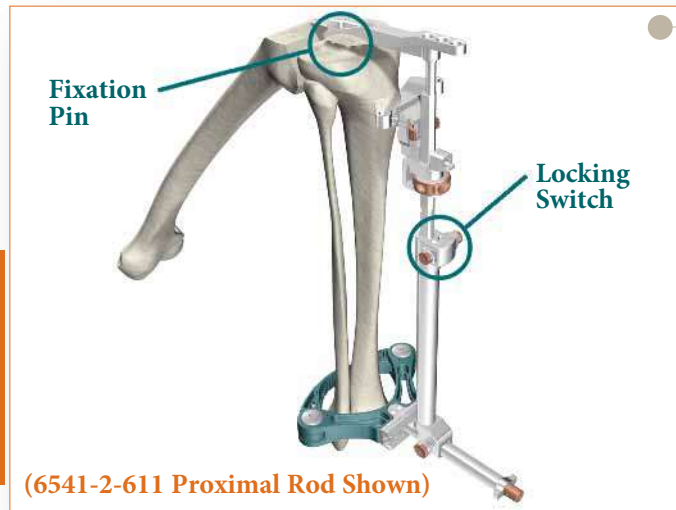


Figure 25

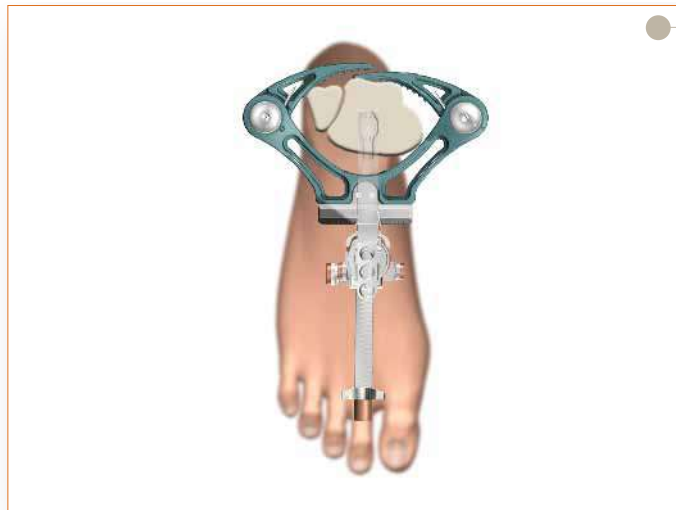


Figure 26

### Tibial Preparation

- ▶ There are two options for tibial preparation: extra-medullary (EM) referencing alignment and intra-medullary (IM) referencing alignment.
- ▶ The Tibial Resection Guide, available in left and right configurations, and the Universal Resection Guide are designed to avoid soft tissue impingement.

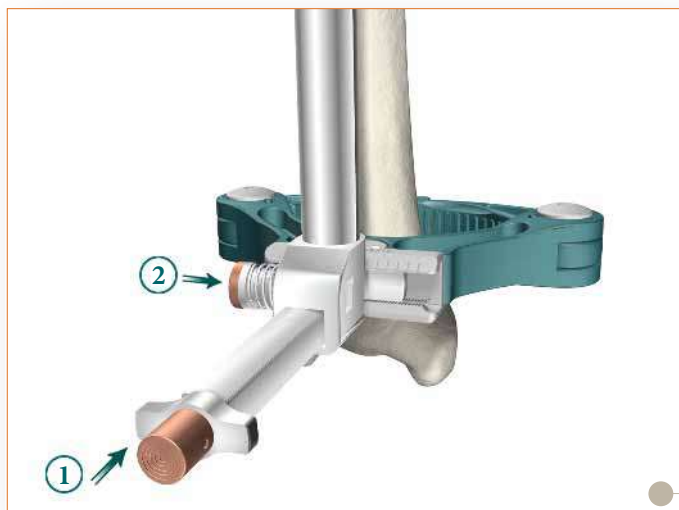
#### Option 1 – Extramedullary Referencing

- ▶ The tibial resection assembly has five parts: the appropriate Tibial Resection Guide, the Ankle Clamp, the Distal Assembly, the Proximal Rod and the Tibial Adjustment Housing. These are assembled first.

**Note:** The Tibial Adjustment Housing is available in 0° slope (optional) and 3° slope.

#### Flexion/Extension Alignment

- ▶ Place the ankle clamp around the ankle and unlock the locking switch.
- ▶ Flexion/Extension alignment is correct when the long axis of the assembly parallels the mid-coronal plane of the tibia. Flexion/Extension alignment can be checked by verifying that the long axis of the assembly is parallel to the tibia.



**Figure 27**

### ***Varus/Valgus Alignment***

- ▶ Medial/Lateral offset can be adjusted by pushing the bronze button (1) and sliding the assembly medially until the shaft intersects the center of the tibia.
- ▶ Once triaxial alignment is achieved, release the bronze button.

### ***Tibial Slope Adjustment***

**Note:** If the Proximal Rod is parallel to the tibia, the slope is 0° or 3° depending on which Tibial Adjustment Housing is used.

- ▶ Tibial slope can be adjusted by pressing the bronze button (2).

### ***Rotational Alignment***

- ▶ Rotate the entire assembly to ensure that the base of the assembly is aligned with the center of the ankle. The center of the ankle is generally in line with the second metatarsal.

Once alignment is confirmed, set the bronze locking switch on the Distal Assembly to the locked position.

## **Instrument Bar**

**Right 6541-2-700**

**Left 6541-2-701**

Tibial Resection Guide



**6541-2-610**

Tibial Alignment Distal Assembly EM



**6541-2-609**

Tibial Alignment Ankle Clamp EM



**6541-2-611**

Tibial Alignment Proximal Rod EM



**0° slope 6541-2-704**

**3° slope 6541-2-705**

Tibial Adjustment Housing



**6541-2-611E**

Express Proximal Rod EM



**Tibial  
Preparation**

# Triathlon Knee System

## Surgical Protocol

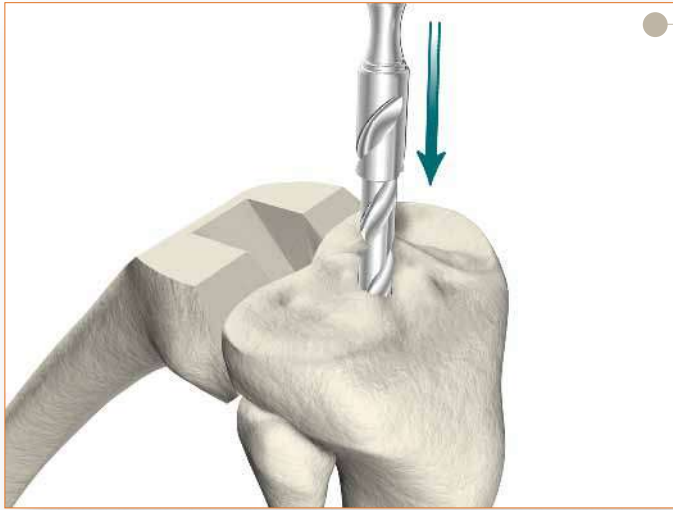


Figure 28

### Option 2 – Intramedullary Referencing

- ▶ Attach the 3/8" IM Drill to the Universal Driver and create a hole in the location determined by the pre-operative X-rays.



Figure 29

- ▶ Attach the T-Handle Driver to the 5/16" IM Rod and slowly pass into the canal, ensuring clearance. Remove the 5/16" IM Rod and insert it into the body of the Tibial Alignment Jig IM. The assembly is then inserted into the canal beyond the isthmus.

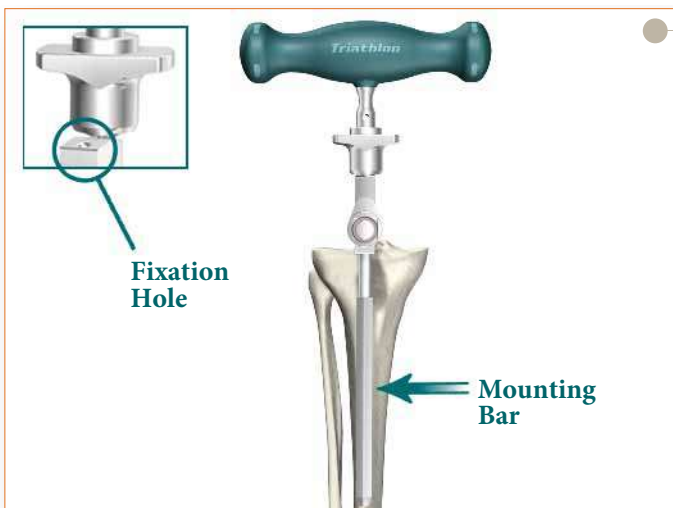
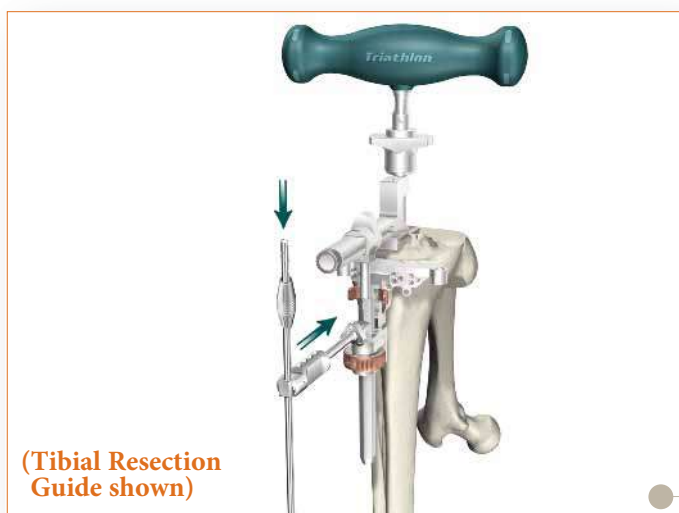


Figure 30

### Rotational Alignment

With the body of the Tibial Alignment Jig IM resting on the proximal tibia, proper rotational alignment is achieved by rotating the instrument about the 5/16" IM Rod so that the vertical mounting bar is over the medial 1/3 of the tibial tubercle. A Headless Pin or the 1/8" Drill are then inserted into the fixation hole to fix rotation (See Inset).



**Figure 31**

### **Varus/Valgus Alignment**

- ▶ Assemble the appropriate Tibial Resection Guide (left, right or Universal Resection Guide) on the Tibial Adjustment Housing.
- Note:** The Tibial Adjustment Housing is available in 0° slope (optional) and 3° slope.
- ▶ Attach the assembly onto the mounting bar by pressing the bronze wheel on the Tibial Adjustment Housing. Attach the Universal Alignment Handle to the Tibial Resection Guide and slide a Universal Alignment Rod through the handle for sagittal assessment.
  - ▶ When alignment is confirmed, the Universal Alignment Handle should be centered over the ankle.

## **Instrument Bar**

**6541-4-538**

3/8" IM Drill



**6541-4-801**

Universal Driver



**6541-4-800**

T-Handle Driver



**6541-4-516**

5/16" IM Rod



**6541-2-600**

Tibial Alignment Jig IM



**0° slope 6541-2-704**

**3° slope 6541-2-705**

Tibial Adjustment Housing



**Right 6541-2-700**

**Left 6541-2-701**

Tibial Resection Guide



**6541-4-602**

Universal Alignment Rods



**6541-1-721**

Universal Resection Guide



# Triathlon Knee System

## Surgical Protocol

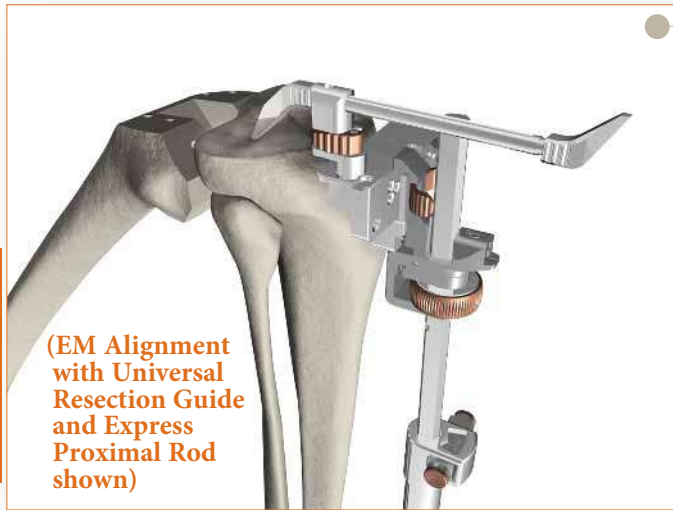


Figure 32

[The following applies to both extramedullary and intramedullary alignment.]

### *Establish Tibial Resection Level*

- ▶ The Tibial Stylus attaches to the Tibial Resection Guide or Universal Resection Guide with the “9” end and referencing the lowest level of the unaffected compartment.
- ▶ 9mm of bone will be resected. Alternatively, if the “2” end of the Tibial Stylus is used, the amount of bone resected will be 2mm below the tip of the stylus.
- ▶ The height of the Tibial Resection Guide, Tibial Stylus and Tibial Adjustment Housing can be adjusted using the bronze wheel on the Tibial Adjustment Housing. For coarse adjustment, press the bronze wheel and slide the assembly up or down. For fine adjustment, turn the bronze wheel to the right to move the assembly up the Proximal Rod or turn left to move the assembly down the Proximal Rod.
- ▶ Remove all alignment instruments leaving only the Tibial Resection Guide in place.

**Note:** Rotate bronze wheel one extra turn, as stylus should be under tension to ensure the minimum amount of bone necessary is resected.

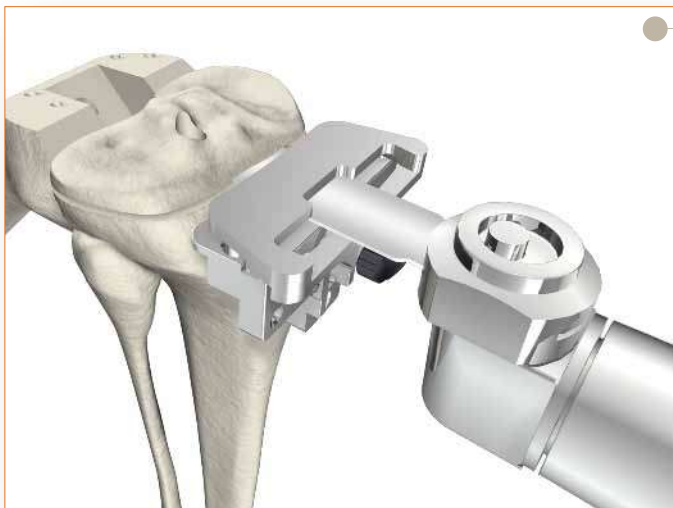


Figure 33

### *Tibial Resection*

- ▶ Resect the proximal tibia. An optional Tibial Resection Guide Modular Capture (Left or Right) may be added.
- ▶ Remove the Tibial Resection Guide.



**Figure 34**

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

- ▶ Place the PS or CR Femoral Trial on the femur.
- ▶ Draw the tibia anteriorly. Assemble a Universal Tibial Template, Alignment Handle and a PS or CR Tibial Insert Trial.
- ▶ Place the assembly on the resected tibial plateau and choose the size that best addresses rotation and coverage.
- ▶ Perform a trial reduction to assess overall component fit, ligament stability and joint range of motion.

**Note:** Ensure all excess debris (bone and soft tissue) is cleared from the Universal Tibial Template.

## **Instrument Bar**

**6541-2-611E**

Express Proximal Rod EM



**Right 6541-2-700**

**Left 6541-2-701**

Tibial Resection Guide



**0° slope 6541-2-704**

**3° slope 6541-2-705**

Tibial Adjustment Housing



**6541-4-806**

Universal Alignment Handle



**6541-2-611**

Tibial Alignment Proximal Rod EM



**6541-2-429**

Tibial Stylus



**6541-1-721**

Universal Resection Guide



**6541-1-723**

Modular Capture - Distal Resection



**Right 6541-2-702**

**Left 6541-2-703**

Tibial Resection Guide Modular Capture



**See Catalog**

CR & PS Femoral Trials



**See Catalog**

Universal Tibial Template



**See Catalog**

CR & PS Tibial Insert Trials





# Triathlon Knee System

## Surgical Protocol

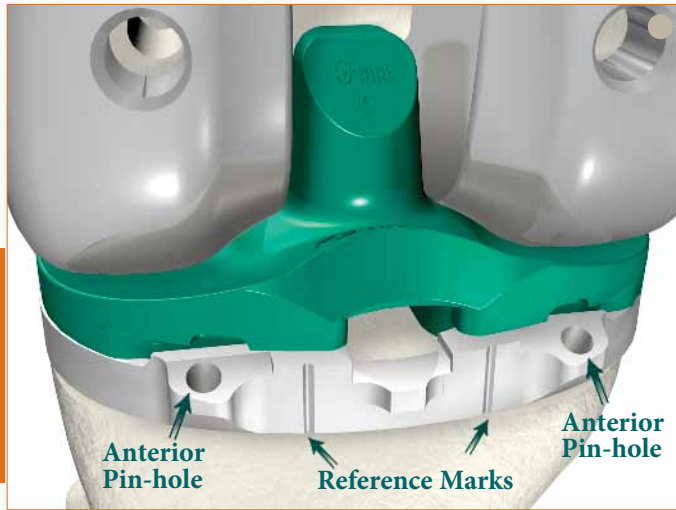


Figure 35

- There are two options to secure the Universal Tibial Template to the tibia:
- Option 1: Once satisfactory alignment and tibial component orientation are achieved, remove the PS or CR Femoral Trial. Place two Headless Pins in the anterior holes of the Universal Tibial Template, disassemble the Tibial Trial Insert from the Universal Tibial Template, and secure by pinning.
  - Option 2: Once satisfactory alignment and tibial component orientation are achieved, mark the anterior tibial cortex in line with the reference marks on the anterior border of the Universal Tibial Template. Remove the PS or CR Femoral Trial and disassemble the Tibial Trial Insert from the Universal Tibial Template. Reposition the Universal Tibial Template (if required) by aligning the anterior reference marks on the template with the reference marks on the anterior cortex. The template is positioned flush to the anterior tibial cortex. Place two Headless Pins in the anterior holes to secure the Universal Tibial Template.

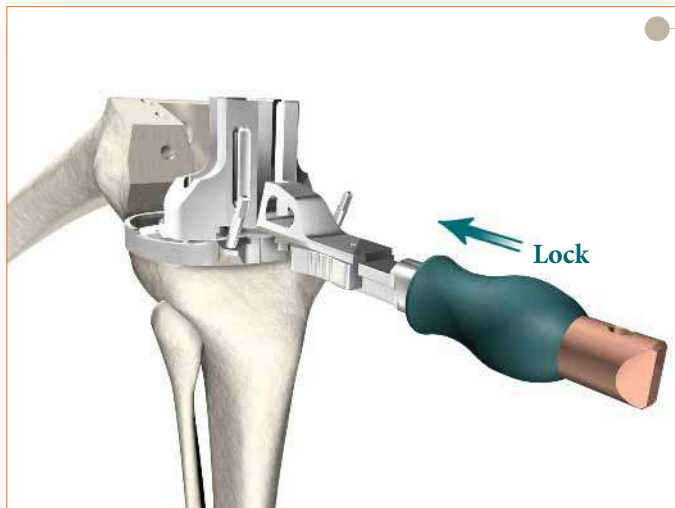


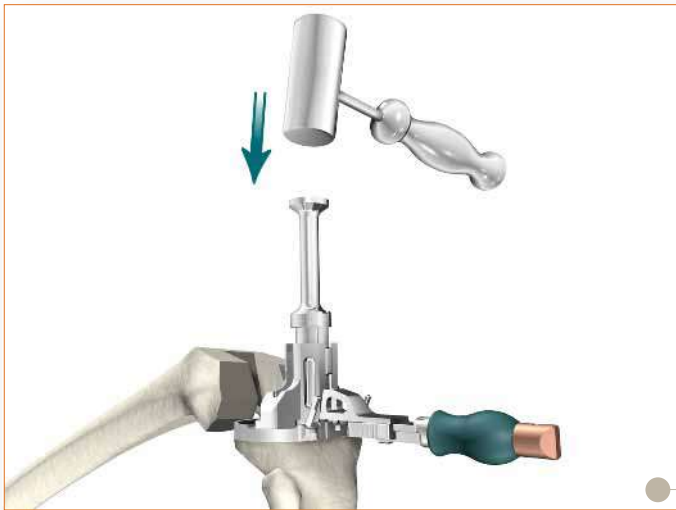
Figure 36

### *Tibial Keel Punching*

- Assemble the Keel Punch Guide to the Universal Tibial Template by inserting at a slight angle to the top of the Universal Tibial Template (into the two locating slots toward the posterior portion of the Universal Tibial Template). Allow the Keel Punch Guide to sit flat on the Universal Tibial Template and push forward on the handle to lock the Keel Punch Guide to the Universal Tibial Template.

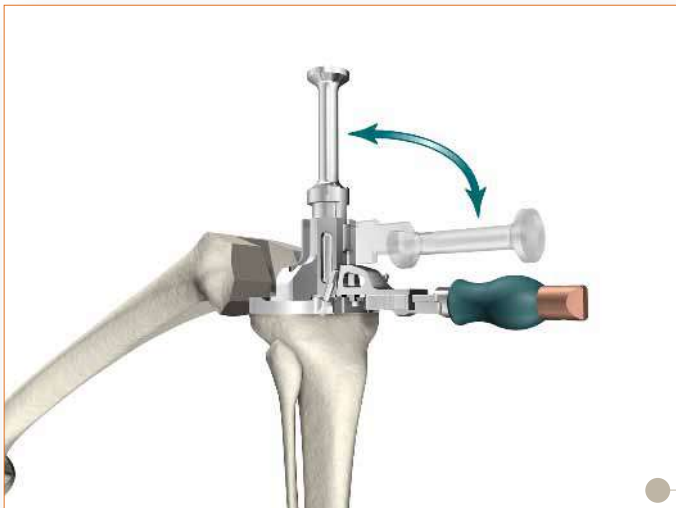


## Instrument Bar



**Figure 37**

- Place the appropriate Keel Punch into the Keel Punch Guide. Use a mallet to impact the Keel Punch. Advance the Keel Punch until it seats fully in the Keel Punch Guide. In sclerotic bone, the use of a saw prior to the Keel Punch may be advisable.



**Figure 38**

- To extract the Keel Punch, lift up on the Keel Punch Guide handle and pull the handle to cantilever the Keel Punch out of the tibia.
- Remove the Headless Pins with the Headless Pin Extractor and remove the Universal Tibial Template.



**See Catalog**  
CR & PS Femoral Trials



**See Catalog**  
Universal Tibial Template



**6541-4-003**  
Headless Pins - 3"



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



**6541-4-801**  
Universal Driver



Size 1, 2, 3 - **6541-2-713**  
Size 4, 5, 6, 7, 8 - **6541-2-748**  
Keel Punch Guide



**See Catalog**  
Keel Punch



**6541-4-804**  
Headless Pin Extractor

# Triathlon Knee System

## Surgical Protocol



Figure 39

### 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" non-offset sawblade, resect the patella.



Figure 40

- 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 41

### 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.

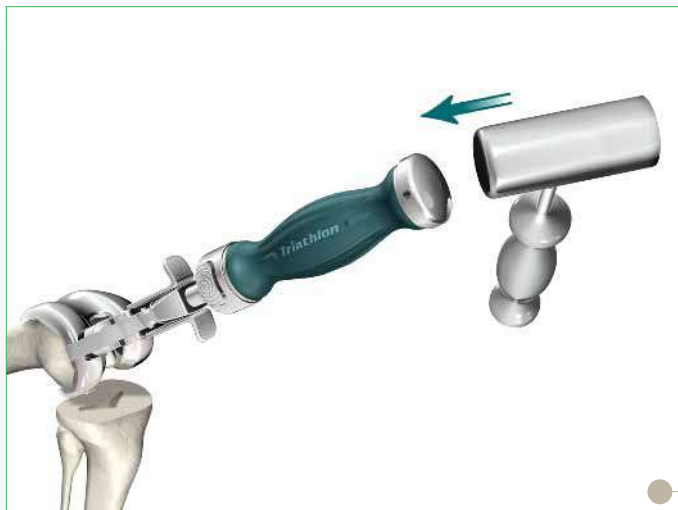


Figure 42

## Component Implantation

### 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.
- ▶ 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).

## 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



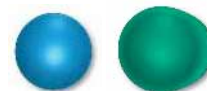
6541-3-524

All-Poly Patella Drill w/Stop



See Catalog

Symmetric & Asymmetric Patella Trials



6541-4-810

Impaction Handle



6541-4-807

Femoral Impactor/Extractor



Patella Preparation

Component Implantation

# Triathlon Knee System

## Surgical Protocol

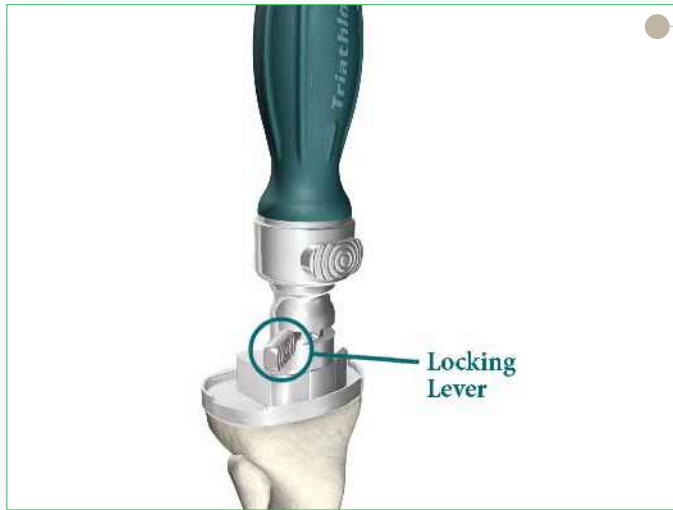


Figure 43

### *Primary Tibial Baseplate - Cemented/Cementless*

- ▶ Connect the Tibial Baseplate Impactor Extractor to the Impaction Handle.
- ▶ Introduce the Primary Tibial Baseplate onto the prepared tibia and impact until the baseplate is seated. Unlock the locking lever and remove the assembly from the Primary Tibial Baseplate.
- ▶ To further seat the baseplate, attach the Tibial Baseplate Impactor to the Impaction Handle.
- ▶ Impact until the Primary Tibial Baseplate is fully seated.

**Note:** Clear all excess bone cement while maintaining position of the Primary Tibial Baseplate.

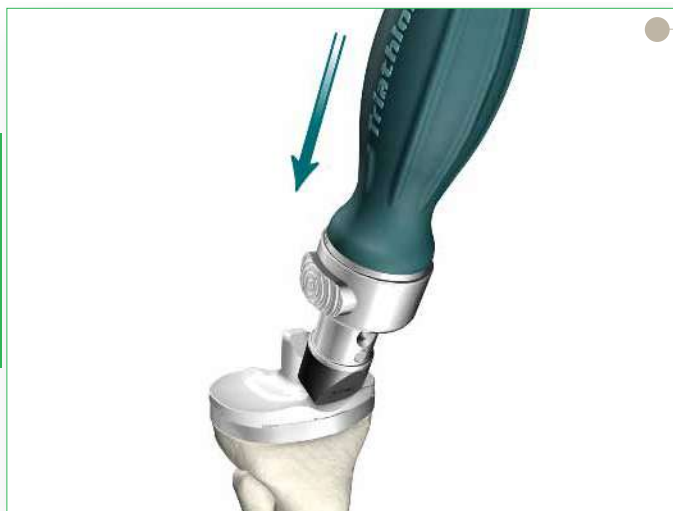


Figure 44

### *Tibial Insert*

- ▶ Prior to assembly of the Tibial Insert, the Tibial Trial Insert may be placed on the Primary Tibial Baseplate to once more assess joint stability and range of motion.
- ▶ To assemble the Tibial Insert, distract the joint and angle the insert posteriorly into the Primary Tibial Baseplate. The posterior lip of the Tibial Insert must fit beneath the lip on the posterior Primary Tibial Baseplate wall.
- ▶ Attach the Tibial Insert Impactor to the Impaction Handle and impact to snap the Insert in place anteriorly. The Tibial Insert is fully seated once the locking wire locks under the barbs on the anterior/interior surface of the Primary Tibial Baseplate wall.

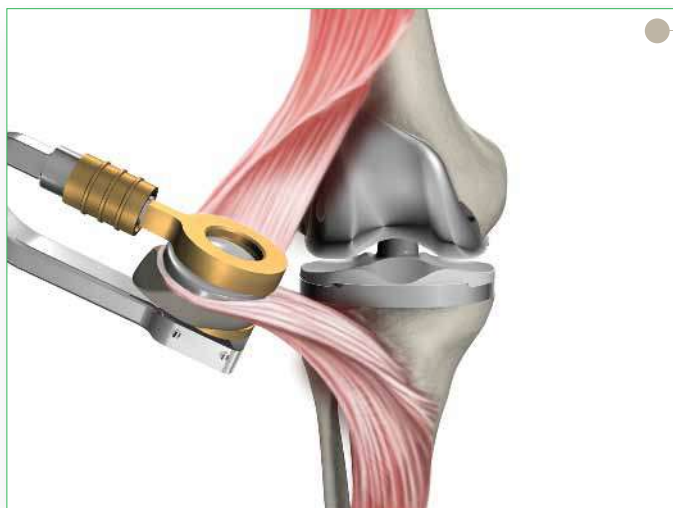


Figure 45

### *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 complete (cemented only).
- ▶ Remove the patella clamp.



**Figure 46**

- 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.

**See Catalog**  
CR & PS Tibial Inserts



**See Catalog**  
Symmetric & Asymmetric Patellas



**6541-3-800E**  
Express Cement Cap



**6633-7-744**  
Patella Clamp



## Instrument Bar

**6541-4-810**  
Impaction Handle



**See Catalog**  
PS Femoral Component - Cemented



**See Catalog**  
PS Femoral Component - Cementless



**See Catalog**  
CR Femoral Component - Cemented



**See Catalog**  
CR Femoral Component - Cementless



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



**6541-4-825**  
Slip Torque Handle



**See Catalog**  
Modular Femoral Distal Fixation Pegs



**6541-4-811**  
Femoral Impactor



**6541-4-805**  
Baseplate Impactor/Extractor



**See Catalog**  
Primary Tibial Baseplate - Cemented



**See Catalog**  
Primary Tibial Baseplate - Cementless



**6541-4-813**  
Tibial Insert Impactor



# Triathlon Knee System

## Surgical Protocol

| Catalog #                                     | Description                                  | Quantity in Kit |
|---|--|-----------------|
| <b>Miscellaneous Instruments Kit Contents</b> |  |                 |
| 3170-0000                                     | 1/8" Drill                                   | 2               |
| 6541-4-003                                    | Headless Pins - 3"                           | 4               |
| 6541-4-300                                    | Headed Nail Impactor Extractor (Optional)    | 1               |
| 6541-4-400                                    | Bladerunner                                  | 1               |
| 6541-4-515                                    | Headed Nails - 1 1/2" (Optional)             | 2               |
| 6541-4-516                                    | 5/16" IM Rod                                 | 1               |
| 6541-4-518                                    | 1/8" Peg Drill                               | 1               |
| 6541-4-525                                    | 1/4" Peg Drill                               | 1               |
| 6541-4-538                                    | 3/8" IM Drill                                | 1               |
| 6541-4-575                                    | Headed Nails - 3/4" (Optional)               | 2               |
| 6541-4-602                                    | Universal Alignment Rods                     | 1               |
| 6541-4-610                                    | Adjustable Spacer Block (Optional)           | 1               |
| 6541-4-700                                    | Bone File (Optional)                         | 1               |
| 6541-4-709                                    | Box Chisel                                   | 1               |
| 6541-4-710                                    | Posterior Osteophyte Removal Tool (Optional) | 1               |
| 6541-4-800                                    | T-Handle Driver                              | 1               |
| 6541-4-801                                    | Universal Driver                             | 1               |
| 6541-4-802                                    | 1/8" Hex Drive (Optional)                    | 1               |
| 6541-4-803                                    | Slap Hammer                                  | 1               |
| 6541-4-804                                    | Headless Pin Extractor                       | 1               |
| 6541-4-805                                    | Tibial Baseplate Impactor Extractor          | 1               |
| 6541-4-806                                    | Universal Alignment Handle                   | 1               |
| 6541-4-807                                    | Femoral Impactor Extractor                   | 1               |
| 6541-4-809                                    | Headless Pin Driver                          | 1               |
| 6541-4-810                                    | Impaction Handle                             | 2               |
| 6541-4-811                                    | Femoral Impactor                             | 1               |
| 6541-4-812                                    | Tibial Baseplate Impactor                    | 1               |
| 6541-4-813                                    | Tibial Insert Impactor                       | 1               |
| 6541-4-825                                    | Slip Torque Handle (Optional)                | 1               |
| 6541-8-004                                    | Triathlon Miscellaneous Upper Tray           | 1               |
| 6541-8-104                                    | Triathlon Miscellaneous Lower Tray           | 1               |
| 6541-9-000                                    | Triathlon Case                               | 1               |
| Total Quantity                                |  | 39              |

| 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-PolyPatella 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               |
| 6541-1-701E  | #1 Express 4:1 Cutting Block (Optional)           | 1               |
| 6541-1-708E  | #8 Express 4:1 Cutting Block (Optional)           | 1               |
| 6541-9-000   | Triathlon Case                                    | 1               |
| <b>Total Quantity</b>                                  |   | <b>35</b>       |



# Triathlon Knee System

## Surgical Protocol

| Catalog #   | Description                                     | Quantity in Kit          |
|---|---|--------------------------|
| <b>Size 3-6 Femoral &amp; Tibial Preparation Kit Contents</b> |   |                          |
| 6541-1-600  | Adjustment Block                                | 1                        |
| 6541-1-603  | Femoral Sizer                                   | 1                        |
| 6541-1-605  | Femoral Stylus                                  | 1                        |
| 6541-1-657  | Femoral Alignment Guide                         | 1                        |
| 6541-1-703E   | #3 Express 4:1 Cutting Block                    | 1                        |
| 6541-1-704E   | #4 Express 4:1 Cutting Block                    | 1                        |
| 6541-1-705E   | #5 Express 4:1 Cutting Block                    | 1                        |
| 6541-1-706E   | #6 Express 4:1 Cutting Block                    | 1                        |
| 6541-1-721  | Universal Resection Guide                       | 1                        |
| 6541-1-723  | Modular Capture - Distal Resection              | 1                        |
| 6541-2-013  | Size 1-3 Keel Punch                             | 1                        |
| 6541-2-046  | Size 4-6 Keel Punch                             | 1                        |
| 6541-2-429  | Tibial Stylus                                   | 1                        |
| 6541-2-600  | Tibial Alignment Jig IM (Optional)              | 1                        |
| 6541-2-603  | #3 Universal Tibial Template                    | 1                        |
| 6541-2-604  | #4 Universal Tibial Template                    | 1                        |
| 6541-2-605  | #5 Universal Tibial Template                    | 1                        |
| 6541-2-606  | #6 Universal Tibial Template                    | 1                        |
| 6541-2-609  | Tibial Alignment Ankle Clamp EM                 | 1                        |
| 6541-2-610  | Tibial Alignment Distal Assembly EM             | 1                        |
| 6541-2-611E   | Tibial Alignment Proximal Rod EM                | 1                        |
| 6541-2-620  | Tibial Template Converter                       | 1                        |
| 6541-2-700  | Tibial Resection Guide Right                    | 1                        |
| 6541-2-701  | Tibial Resection Guide Left                     | 1                        |
| 6541-2-702  | Tibial Resection Guide Modular Capture Right    | 1                        |
| 6541-2-703  | Tibial Resection Guide Modular Capture Left     | 1                        |
| 6541-2-704  | Tibial Adjustment Housing - 0° slope (Optional) | 1                        |
| 6541-2-705  | Tibial Adjustment Housing - 3° slope            | 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                        |
| 6541-8-002  | Triathlon Size 3-6 Upper Tray                   | 1                        |
| 6541-8-102  | Triathlon Size 3-6 Lower Tray                   | 1                        |
| 6541-9-000  | Triathlon Case                                  | 1                        |
|   |   | <b>Total Quantity 34</b> |



| Catalog # | Description | Quantity in Kit |
|-----------|-------------|-----------------|
|-----------|-------------|-----------------|

### Size 3-6 PS Femoral & Tibial Trialing Kit Contents

|            |                                  |   |
|------------|----------------------------------|---|
| 5511-T-301 | PS Femoral Trial #3 Left         | 1 |
| 5511-T-302 | PS Femoral Trial #3 Right        | 1 |
| 5511-T-401 | PS Femoral Trial #4 Left         | 1 |
| 5511-T-402 | PS Femoral Trial #4 Right        | 1 |
| 5511-T-501 | PS Femoral Trial #5 Left         | 1 |
| 5511-T-502 | PS Femoral Trial #5 Right        | 1 |
| 5511-T-601 | PS Femoral Trial #6 Left         | 1 |
| 5511-T-602 | PS Femoral Trial #6 Right        | 1 |
| 5532-T-309 | PS Tibial Insert Trial #3 - 9mm  | 1 |
| 5532-T-311 | PS Tibial Insert Trial #3 - 11mm | 1 |
| 5532-T-313 | PS Tibial Insert Trial #3 - 13mm | 1 |
| 5532-T-316 | PS Tibial Insert Trial #3 - 16mm | 1 |
| 5532-T-319 | PS Tibial Insert Trial #3 - 19mm | 1 |
| 5532-T-409 | PS Tibial Insert Trial #4 - 9mm  | 1 |
| 5532-T-411 | PS Tibial Insert Trial #4 - 11mm | 1 |
| 5532-T-413 | PS Tibial Insert Trial #4 - 13mm | 1 |
| 5532-T-416 | PS Tibial Insert Trial #4 - 16mm | 1 |
| 5532-T-419 | PS Tibial Insert Trial #4 - 19mm | 1 |
| 5532-T-509 | PS Tibial Insert Trial #5 - 9mm  | 1 |
| 5532-T-511 | PS Tibial Insert Trial #5 - 11mm | 1 |
| 5532-T-513 | PS Tibial Insert Trial #5 - 13mm | 1 |
| 5532-T-516 | PS Tibial Insert Trial #5 - 16mm | 1 |
| 5532-T-519 | PS Tibial Insert Trial #5 - 19mm | 1 |
| 5532-T-609 | PS Tibial Insert Trial #6 - 9mm  | 1 |
| 5532-T-611 | PS Tibial Insert Trial #6 - 11mm | 1 |
| 5532-T-613 | PS Tibial Insert Trial #6 - 13mm | 1 |
| 5532-T-616 | PS Tibial Insert Trial #6 - 16mm | 1 |
| 5532-T-619 | PS Tibial Insert Trial #6 - 19mm | 1 |
| 6541-5-713 | #3 MIS PS Box Cutting Guide      | 1 |
| 6541-5-714 | #4 MIS PS Box Cutting Guide      | 1 |
| 6541-5-715 | #5 MIS PS Box Cutting Guide      | 1 |
| 6541-5-716 | #6 MIS PS Box Cutting Guide      | 1 |
| 6541-8-009 | Triathlon 3-6 PS Upper Tray      | 1 |
| 6541-8-109 | Triathlon 3-6 PS Lower Tray      | 1 |
| 6541-9-000 | Triathlon Case                   | 1 |

Total Quantity 35

# Triathlon Knee System

## Surgical Protocol

| Catalog #   | Description                      | Quantity in Kit          |
|---|----------------------------------|--------------------------|
| <b>Size 3-6 CR Femoral &amp; Tibial Trialing Kit Contents</b> |                                  |                          |
| 5510-T-301  | CR Femoral Trial #3 Left         | 1                        |
| 5510-T-302  | CR Femoral Trial #3 Right        | 1                        |
| 5510-T-401  | CR Femoral Trial #4 Left         | 1                        |
| 5510-T-402  | CR Femoral Trial #4 Right        | 1                        |
| 5510-T-501  | CR Femoral Trial #5 Left         | 1                        |
| 5510-T-502  | CR Femoral Trial #5 Right        | 1                        |
| 5510-T-601  | CR Femoral Trial #6 Left         | 1                        |
| 5510-T-602  | CR Femoral Trial #6 Right        | 1                        |
| 5530-T-309  | CR Tibial Insert Trial #3 - 9mm  | 1                        |
| 5530-T-311  | CR Tibial Insert Trial #3 - 11mm | 1                        |
| 5530-T-313  | CR Tibial Insert Trial #3 - 13mm | 1                        |
| 5530-T-316  | CR Tibial Insert Trial #3 - 16mm | 1                        |
| 5530-T-319  | CR Tibial Insert Trial #3 - 19mm | 1                        |
| 5530-T-409  | CR Tibial Insert Trial #4 - 9mm  | 1                        |
| 5530-T-411  | CR Tibial Insert Trial #4 - 11mm | 1                        |
| 5530-T-413  | CR Tibial Insert Trial #4 - 13mm | 1                        |
| 5530-T-416  | CR Tibial Insert Trial #4 - 16mm | 1                        |
| 5530-T-419  | CR Tibial Insert Trial #4 - 19mm | 1                        |
| 5530-T-509  | CR Tibial Insert Trial #5 - 9mm  | 1                        |
| 5530-T-511  | CR Tibial Insert Trial #5 - 11mm | 1                        |
| 5530-T-513  | CR Tibial Insert Trial #5 - 13mm | 1                        |
| 5530-T-516  | CR Tibial Insert Trial #5 - 16mm | 1                        |
| 5530-T-519  | CR Tibial Insert Trial #5 - 19mm | 1                        |
| 5530-T-609  | CR Tibial Insert Trial #6 - 9mm  | 1                        |
| 5530-T-611  | CR Tibial Insert Trial #6 - 11mm | 1                        |
| 5530-T-613  | CR Tibial Insert Trial #6 - 13mm | 1                        |
| 5530-T-616  | CR Tibial Insert Trial #6 - 16mm | 1                        |
| 5530-T-619  | CR Tibial Insert Trial #6 - 19mm | 1                        |
| 6541-8-008  | Triathlon 3-6 CR Upper Tray      | 1                        |
| 6541-8-108  | Triathlon 3-6 CR Lower Tray      | 1                        |
| 6541-9-000  | Triathlon Case                   | 1                        |
|   |                                  | <b>Total Quantity 31</b> |

| Catalog #   | Description                             | Quantity in Kit |
|---|---|-----------------|
| <b>Size 1, 8 PS Preparation &amp; Trialing Kit Contents</b> |   |                 |
| 5511-T-101  | PS Femoral Trial #1 Left                | 1               |
| 5511-T-102  | PS Femoral Trial #1 Right               | 1               |
| 5511-T-801  | PS Femoral Trial #8 Left                | 1               |
| 5511-T-802  | PS Femoral Trial #8 Right               | 1               |
| 5532-T-109  | PS Tibial Insert Trial #1 - 9mm         | 1               |
| 5532-T-111  | PS Tibial Insert Trial #1 - 11mm        | 1               |
| 5532-T-113  | PS Tibial Insert Trial #1 - 13mm        | 1               |
| 5532-T-116  | PS Tibial Insert Trial #1 - 16mm        | 1               |
| 5532-T-119  | PS Tibial Insert Trial #1 - 19mm        | 1               |
| 5532-T-809  | PS Tibial Insert Trial #8 - 9mm         | 1               |
| 5532-T-811  | PS Tibial Insert Trial #8 - 11mm        | 1               |
| 5532-T-813  | PS Tibial Insert Trial #8 - 13mm        | 1               |
| 5532-T-816  | PS Tibial Insert Trial #8 - 16mm        | 1               |
| 5532-T-819  | PS Tibial Insert Trial #8 - 19mm        | 1               |
| 6541-5-711  | #1 MIS PS Box Cutting Guide             | 1               |
| 6541-5-718  | #8 MIS PS Box Cutting Guide             | 1               |
| 6541-2-078  | Size 7-8 Keel Punch (Optional)          | 1               |
| 6541-2-601  | #1 Universal Tibial Template (Optional) | 1               |
| 6541-2-608  | #8 Universal Tibial Template (Optional) | 1               |
| 6541-8-113  | Triathlon 1 & 8 PS Lower Tray           | 1               |
| 6541-9-000  | Triathlon Case                          | 1               |
| Total Quantity  |   | 21              |

# Triathlon Knee System

## Surgical Protocol

| Catalog # | Description | Quantity in Kit |
|-----------|-------------|-----------------|
|-----------|-------------|-----------------|

### Size 1, 8 CR Preparation & Trialing Kit Contents

|            |                                  |   |
|------------|----------------------------------|---|
| 5510-T-101 | CR Femoral Trial #1 Left         | 1 |
| 5510-T-102 | CR Femoral Trial #1 Right        | 1 |
| 5510-T-801 | CR Femoral Trial #8 Left         | 1 |
| 5510-T-802 | CR Femoral Trial #8 Right        | 1 |
| 5530-T-109 | CR Tibial Insert Trial #1 - 9mm  | 1 |
| 5530-T-111 | CR Tibial Insert Trial #1 - 11mm | 1 |
| 5530-T-113 | CR Tibial Insert Trial #1 - 13mm | 1 |
| 5530-T-116 | CR Tibial Insert Trial #1 - 16mm | 1 |
| 5530-T-119 | CR Tibial Insert Trial #1 - 19mm | 1 |
| 5530-T-809 | CR Tibial Insert Trial #8 - 9mm  | 1 |
| 5530-T-811 | CR Tibial Insert Trial #8 - 11mm | 1 |
| 5530-T-813 | CR Tibial Insert Trial #8 - 13mm | 1 |
| 5530-T-816 | CR Tibial Insert Trial #8 - 16mm | 1 |
| 5530-T-819 | CR Tibial Insert Trial #8 - 19mm | 1 |
| 6541-2-078 | Size 7-8 Keel Punch              | 1 |
| 6541-2-601 | #1 Universal Tibial Template     | 1 |
| 6541-2-608 | #8 Universal Tibial Template     | 1 |
| 6541-8-112 | Triathlon 1 & 8 CR Lower Tray    | 1 |
| 6541-9-000 | Triathlon Case                   | 1 |

Total Quantity 19

### Size 2, 7 PS Preparation & Trialing Kit Contents

|             |   |   |
|-------------|---|---|
| 5511-T-201  | PS Femoral Trial #2 Left                | 1 |
| 5511-T-202  | PS Femoral Trial #2 Right               | 1 |
| 5511-T-701  | PS Femoral Trial #7 Left                | 1 |
| 5511-T-702  | PS Femoral Trial #7 Right               | 1 |
| 5532-T-209  | PS Tibial Insert Trial #2 - 9mm         | 1 |
| 5532-T-211  | PS Tibial Insert Trial #2 - 11mm        | 1 |
| 5532-T-213  | PS Tibial Insert Trial #2 - 13mm        | 1 |
| 5532-T-216  | PS Tibial Insert Trial #2 - 16mm        | 1 |
| 5532-T-219  | PS Tibial Insert Trial #2 - 19mm        | 1 |
| 5532-T-709  | PS Tibial Insert Trial #7 - 9mm         | 1 |
| 5532-T-711  | PS Tibial Insert Trial #7 - 11mm        | 1 |
| 5532-T-713  | PS Tibial Insert Trial #7 - 13mm        | 1 |
| 5532-T-716  | PS Tibial Insert Trial #7 - 16mm        | 1 |
| 5532-T-719  | PS Tibial Insert Trial #7 - 19mm        | 1 |
| 6541-1-702E | #2 Express 4:1 Cutting Block (Optional) | 1 |
| 6541-1-707E | #7 Express 4:1 Cutting Block (Optional) | 1 |
| 6541-5-712  | #2 MIS PS Box Cutting Guide             | 1 |
| 6541-5-717  | #7 MIS PS Box Cutting Guide             | 1 |
| 6541-2-078  | Size 7-8 Keel Punch (Optional)          | 1 |
| 6541-2-602  | #2 Universal Tibial Template (Optional) | 1 |
| 6541-2-607  | #7 Universal Tibial Template (Optional) | 1 |
| 6541-8-022  | Triathlon 2 & 7 PS Upper Tray           | 1 |
| 6541-9-000  | Triathlon Case                          | 1 |

Total Quantity 23

| Catalog # | Description | Quantity in Kit |
|-----------|-------------|-----------------|
|-----------|-------------|-----------------|

### Size 2, 7 CR Preparation & Trialing Kit Contents

|             |                                  |   |
|-------------|----------------------------------|---|
| 5510-T-201  | CR Femoral Trial #2 Left         | 1 |
| 5510-T-202  | CR Femoral Trial #2 Right        | 1 |
| 5510-T-701  | CR Femoral Trial #7 Left         | 1 |
| 5510-T-702  | CR Femoral Trial #7 Right        | 1 |
| 5530-T-209  | CR Tibial Insert Trial #2 - 9mm  | 1 |
| 5530-T-211  | CR Tibial Insert Trial #2 - 11mm | 1 |
| 5530-T-213  | CR Tibial Insert Trial #2 - 13mm | 1 |
| 5530-T-216  | CR Tibial Insert Trial #2 - 16mm | 1 |
| 5530-T-219  | CR Tibial Insert Trial #2 - 19mm | 1 |
| 5530-T-709  | CR Tibial Insert Trial #7 - 9mm  | 1 |
| 5530-T-711  | CR Tibial Insert Trial #7 - 11mm | 1 |
| 5530-T-713  | CR Tibial Insert Trial #7 - 13mm | 1 |
| 5530-T-716  | CR Tibial Insert Trial #7 - 16mm | 1 |
| 5530-T-719  | CR Tibial Insert Trial #7 - 19mm | 1 |
| 6541-1-702E | #2 Express 4:1 Cutting Block     | 1 |
| 6541-1-707E | #7 Express 4:1 Cutting Block     | 1 |
| 6541-2-078  | Size 7-8 Keel Punch              | 1 |
| 6541-2-602  | #2 Universal Tibial Template     | 1 |
| 6541-2-607  | #7 Universal Tibial Template     | 1 |
| 6541-8-021  | Triathlon 2 & 7 CR Upper Tray    | 1 |
| 6541-9-000  | Triathlon Case                   | 1 |

Total Quantity 21

### Size 1-8 Max PS Tibial Trialing Kit Contents

|            |                                   |   |
|------------|-----------------------------------|---|
| 5532-T-122 | PS Tibial Insert Trial #1 - 22mm  | 1 |
| 5532-T-125 | PS Tibial Insert Trial #1 - 25mm  | 1 |
| 5532-T-222 | PS Tibial Insert Trial #2 - 22mm  | 1 |
| 5532-T-225 | PS Tibial Insert Trial #2 - 25mm  | 1 |
| 5532-T-322 | PS Tibial Insert Trial #3 - 22mm  | 1 |
| 5532-T-325 | PS Tibial Insert Trial #3 - 25mm  | 1 |
| 5532-T-422 | PS Tibial Insert Trial #4 - 22mm  | 1 |
| 5532-T-425 | PS Tibial Insert Trial #4 - 25mm  | 1 |
| 5532-T-522 | PS Tibial Insert Trial #5 - 22mm  | 1 |
| 5532-T-525 | PS Tibial Insert Trial #5 - 25mm  | 1 |
| 5532-T-622 | PS Tibial Insert Trial #6 - 22mm  | 1 |
| 5532-T-625 | PS Tibial Insert Trial #6 - 25mm  | 1 |
| 5532-T-722 | PS Tibial Insert Trial #7 - 22mm  | 1 |
| 5532-T-725 | PS Tibial Insert Trial #7 - 25mm  | 1 |
| 5532-T-822 | PS Tibial Insert Trial #8 - 22mm  | 1 |
| 5532-T-825 | PS Tibial Insert Trial #8 - 25mm  | 1 |
| 6541-8-120 | Triathlon 1-8 Max PS - Upper Tray | 1 |
| 6541-9-000 | Triathlon Case                    | 1 |

Total Quantity 18

# Triathlon Knee System

## Surgical Protocol

| Catalog # | Description | Sizes | Qty |
|-----------|-------------|-------|-----|
|-----------|-------------|-------|-----|

### Triathlon CR Modified Hollow Tibial Insert Trials Part Numbers

|             |   |                         |             |
|-------------|---|-------------------------|-------------|
| 5530-T-X09A | CR Modified Hollow Tibial Insert Trial 9mm  | X = 1,2,3,4,5,6,7 and 8 | 1 Each Size |
| 5530-T-X11A | CR Modified Hollow Tibial Insert Trial 11mm | X = 1,2,3,4,5,6,7 and 8 | 1 Each Size |
| 5530-T-X13A | CR Modified Hollow Tibial Insert Trial 13mm | X = 1,2,3,4,5,6,7 and 8 | 1 Each Size |
| 5530-T-X16A | CR Modified Hollow Tibial Insert Trial 16mm | X = 1,2,3,4,5,6,7 and 8 | 1 Each Size |
| 5530-T-X19A | CR Modified Hollow Tibial Insert Trial 19mm | X = 1,2,3,4,5,6,7 and 8 | 1 Each Size |

### Triathlon PS Modified Hollow Tibial Insert Trials Part Numbers

|             |   |                         |             |
|-------------|---|-------------------------|-------------|
| 5532-T-X09A | PS Modified Hollow Tibial Insert Trial 9mm  | X = 1,2,3,4,5,6,7 and 8 | 1 Each Size |
| 5532-T-X11A | PS Modified Hollow Tibial Insert Trial 11mm | X = 1,2,3,4,5,6,7 and 8 | 1 Each Size |
| 5532-T-X13A | PS Modified Hollow Tibial Insert Trial 13mm | X = 1,2,3,4,5,6,7 and 8 | 1 Each Size |
| 5532-T-X16A | PS Modified Hollow Tibial Insert Trial 16mm | X = 1,2,3,4,5,6,7 and 8 | 1 Each Size |
| 5532-T-X19A | PS Modified Hollow Tibial Insert Trial 19mm | X = 1,2,3,4,5,6,7 and 8 | 1 Each Size |
| 5532-T-X22A | PS Modified Hollow Tibial Insert Trial 22mm | X = 1,2,3,4,5,6,7 and 8 | 1 Each Size |
| 5532-T-X25A | PS Modified Hollow Tibial Insert Trial 25mm | X = 1,2,3,4,5,6,7 and 8 | 1 Each Size |

| Catalog # | Description | Sizes | Qty |
|-----------|-------------|-------|-----|
|-----------|-------------|-------|-----|

### Triathlon CR Femoral Component - Cemented Part Numbers

|            |   |                         |             |
|------------|---|-------------------------|-------------|
| 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 |

### Triathlon CR Femoral Cementless Component - Beaded Part Numbers

|            |  |                         |             |
|------------|--|-------------------------|-------------|
| 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 |

### Triathlon CR Femoral Cementless Component - Beaded w/Peri-Apatite Part Numbers

|            |   |                         |             |
|------------|---|-------------------------|-------------|
| 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 |

### Triathlon PS Femoral Component - Cemented Part Numbers

|            |   |                         |             |
|------------|---|-------------------------|-------------|
| 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 |

### Triathlon PS Femoral Cementless Component - Beaded Part Numbers

|            |  |                         |             |
|------------|--|-------------------------|-------------|
| 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 |

### Triathlon PS Femoral Cementless Component - Beaded w/Peri-Apatite Part Numbers

|            |   |                         |             |
|------------|---|-------------------------|-------------|
| 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 |



# Triathlon Knee System

## Surgical Protocol

| Catalog # | Description | Sizes | Additional Instruments Required |
|-----------|-------------|-------|---------------------------------|
|-----------|-------------|-------|---------------------------------|

### Primary Tibial Baseplate Options Part Numbers

|            |   |                         |  |
|------------|---|-------------------------|--|
| 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                   |

| Catalog # | Description | Sizes | Qty |
|-----------|-------------|-------|-----|
|-----------|-------------|-------|-----|

### 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 |

| Catalog # | Description | Sizes | Qty |
|-----------|-------------|-------|-----|
|-----------|-------------|-------|-----|

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

| Conventional Polyethylene Inserts |   |                         |             |
|-----------------------------------|---|-------------------------|-------------|
| 5531-P-X09                        | Triathlon CS Tibial Insert - Conventional Polyethylene 9mm  | X = 1,2,3,4,5,6,7 and 8 | 1 Each Size |
| 5531-P-X11                        | Triathlon CS Tibial Insert - Conventional Polyethylene 11mm | X = 1,2,3,4,5,6,7 and 8 | 1 Each Size |
| 5531-P-X13                        | Triathlon CS Tibial Insert - Conventional Polyethylene 13mm | X = 1,2,3,4,5,6,7 and 8 | 1 Each Size |
| 5531-P-X16                        | Triathlon CS Tibial Insert - Conventional Polyethylene 16mm | X = 1,2,3,4,5,6,7 and 8 | 1 Each Size |
| 5531-P-X19                        | Triathlon CS Tibial Insert - Conventional Polyethylene 19mm | X = 1,2,3,4,5,6,7 and 8 | 1 Each Size |
| 5531-P-X22                        | Triathlon CS Tibial Insert - Conventional Polyethylene 22mm | X = 1,2,3,4,5,6,7 and 8 | 1 Each Size |
| 5531-P-X25                        | Triathlon CS Tibial Insert - Conventional Polyethylene 25mm | X = 1,2,3,4,5,6,7 and 8 | 1 Each Size |
| X3 Inserts                        |   |                         |             |
| 5531-G-X09                        | Triathlon CS Tibial Insert - X3 9mm                         | X = 1,2,3,4,5,6,7 and 8 | 1 Each Size |
| 5531-G-X11                        | Triathlon CS Tibial Insert - X3 11mm                        | X = 1,2,3,4,5,6,7 and 8 | 1 Each Size |
| 5531-G-X13                        | Triathlon CS Tibial Insert - X3 13mm                        | X = 1,2,3,4,5,6,7 and 8 | 1 Each Size |
| 5531-G-X16                        | Triathlon CS Tibial Insert - X3 16mm                        | X = 1,2,3,4,5,6,7 and 8 | 1 Each Size |
| 5531-G-X19                        | Triathlon CS Tibial Insert - X3 19mm                        | X = 1,2,3,4,5,6,7 and 8 | 1 Each Size |
| 5531-G-X22                        | Triathlon CS Tibial Insert - X3 22mm                        | X = 1,2,3,4,5,6,7 and 8 | 1 Each Size |
| 5531-G-X25                        | Triathlon CS Tibial Insert - X3 25mm                        | 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 |

# Triathlon Knee System

## Surgical Protocol

| Catalog # | Description | Sizes | Qty |
|-----------|-------------|-------|-----|
|-----------|-------------|-------|-----|

### Symmetric Patella - 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 |

### Asymmetric Patella - 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 |

\*S/I - Superior/Inferior

| Catalog # | Description |
|-----------|-------------|
|-----------|-------------|

### Modular Femoral Distal Fixation Peg Part Number

|            |  |
|------------|--|
| 5575-X-000 | Modular Femoral Distal Fixation Peg (2 per pack) |
|------------|--|

### Triathlon PS Box Preparation (Optional) Part Numbers

|            |  |
|------------|--|
| 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        |

# Triathlon Knee System

# Surgical Protocol

## Notes

## Notes

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# Surgical Protocol

## Notes





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**Joint Replacements**

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**Trauma, Extremities & Deformities**

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**Craniomaxillofacial**

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**Spine**

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**Biologics**

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**Surgical Products**

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**Neuro & ENT**

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