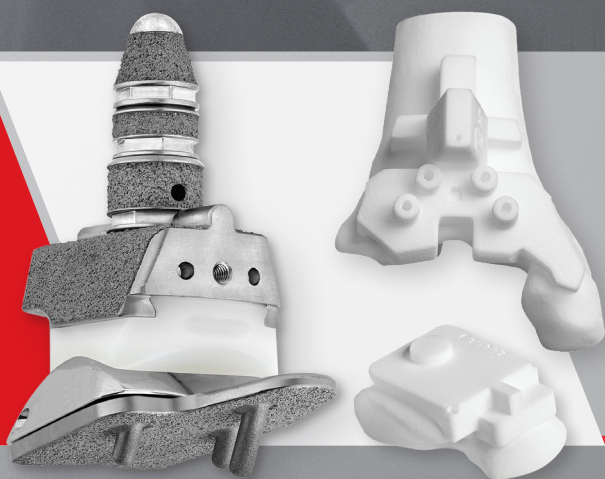




PROPHECY™ INVISION™

Preoperative Navigation Guides



SURGICAL TECHNIQUE

PROPHECY™ INVISION™

Preoperative Navigation Guides

SURGICAL TECHNIQUE

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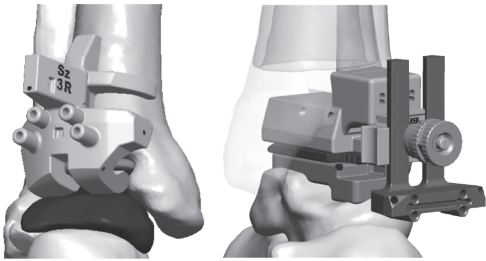
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Proper surgical procedures and techniques are the responsibility of the medical professional. The following guidelines are furnished for information purposes only. Each surgeon must evaluate the appropriateness of the procedures based on his or her personal medical training and experience. Prior to use of the system, the surgeon should refer to the product package insert for complete warnings, precautions, indications, contraindications and adverse effects. Package inserts are also available by contacting the manufacturer. Contact information can be found on the back of this surgical technique and the package insert is available on the website listed.

Please contact your local Wright representative for product availability.



PROPHECY INVISION Alignment Guide Product Information

General Product Information

The Patient Specific Guides are designed for single use only. They are manufactured with certain patient-specific features, which render them unusable in cases other than that for which they were designed. These Patient Specific Guides are supplied clean and non-sterile, and must be sterilized before use. After use, these instruments must be disposed of properly. Please refer to the PROPHECY INVISION Instrument package insert for instructions on the proper steps for processing Wright Medical disposable surgical instruments.

Intended Use

Wright's PROPHECY Preoperative Navigation Alignment System is intended to be used as patient specific instrumentation to assist in the positioning of total ankle replacement components intraoperatively and in guiding the marking of bone before cutting. The PROPHECY Preoperative Navigation Alignment Guides are intended for use with Wright's INBONE™, INFINITY™, and INVISION™ Total Ankle Systems and their cleared indications for use, provided that anatomic landmarks necessary for alignment and positioning of the implant are identifiable on patient imaging scans. The PROPHECY Preoperative Navigation Alignment Guides are intended for single use only. The PROPHECY Preoperative Reports are intended for use with Wright's INBONE, INFINITY, and INVISION Total Ankle Systems and their cleared indications for use, provided that anatomic landmarks necessary for alignment and positioning of the implant are identifiable on patient imaging scans.

INVISION and INBONE Total Ankle Product Information

General Product Information

The INVISION Total Ankle Revision System is the next step in Total Ankle Arthroplasty. This system retains the design principles of the INBONE Total Ankle System while introducing specific design enhancements utilized for previous failed total ankle replacement surgery.

The INVISION Total Ankle Revision System utilizes INBONE Tibial Stems for proximal fixation. A minimum of two and a maximum of eight stems are cleared for use. These implants are provided sterile.

The INVISION Total Ankle Revision System offers universal Tibial Trays; with four sizes (2-5), two lengths (standard and long), and two thicknesses (+4mm and +8mm). The Tibial Trays are manufactured from Titanium (Ti) Alloy and utilize a similar trapezoidal profile as the INBONE Tibial Trays. On the superior surface a Morse taper identical to INBONE is utilized for compatibility with the INBONE Tibial Stems. The AP lengths of the INVISION Tibial Trays have been optimized to match the resected anatomy. The lock detail of the INVISION Tibial Trays is identical to INBONE and the proximal surface is coated. These implants are provided sterile.

The standard, revision, and large revision INBONE Tibial Inserts are available for use with the INVISION Total Ankle Revision System. The polyethylene inserts are manufactured from Ultra Height Weight Polyethylene (UHMWPE) and are provided sterile.

The INVISION Talar Dome is available in five sizes (1-5), each with a standard and +3mm thickness option with a symmetric design that allows it to be used in both right and left ankles. It is manufactured from Cobalt- Chrome (CoCr) and possesses the same sulcus articulating geometry as the INBONE Talar Dome. On the inferior surface a central Morse taper hole allows for coupling with the INVISION Talar Plate Implant. The same size talar dome or one size smaller can be used with the talar plate. The anterior-medial surface includes the Morse taper release hole. The INVISION Talar Domes are provided sterile.

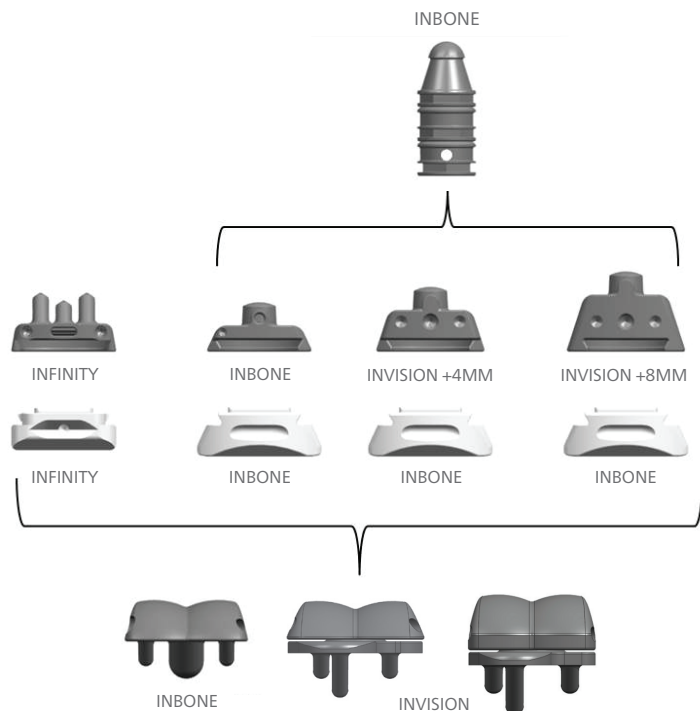
Five asymmetric Talar Plate Implants, sizes 1-5, are included in the INVISION Total Ankle Revision System. The implant profile was designed to maximize cortical coverage of the talus with fixation supported with three pegs on the distal surface. Manufactured from Titanium Alloy, the Talar Plates include a male Morse Taper which allow connection of Talar dome to plate. The inferior surface is coated on the distal surface. These implants are provided in standard and long lengths, and provided sterile.

Your final construct may utilize the same size talar dome as your tibial tray or one size smaller by switching to included “+” polys. Your talar plate may be the same size as your dome or one size larger to ensure the best coverage of talus.

CAUTION: Using a talar plate that is smaller than the chosen talar dome may result in torsional morse taper release.

Implant Interchangeability

The INVISION Total Ankle Revision System includes an array of options for each patient – modular tibial stems, six thicknesses of polyethylene inserts as well as multiple thicknesses and lengths for Tibial trays. The INVISION Total Ankle Revision System is interchangeable with the INBONE II Talar Dome and Tibial components as well as INFINITY Tibial components.



Intended Use

The INVISION Total Ankle Revision System is intended to give a patient limited mobility by reducing pain, restoring alignment and replacing the flexion and extension movement in the ankle joint.

Indications

The INVISION Total Ankle Revision System is indicated for patients with ankle joints damaged by severe rheumatoid, post-traumatic, or degenerative arthritis. The INVISION Total Ankle is additionally indicated for patients with a failed previous ankle surgery.

CAUTION: In the United States, the ankle prosthesis is intended for cement use only.

Contraindications

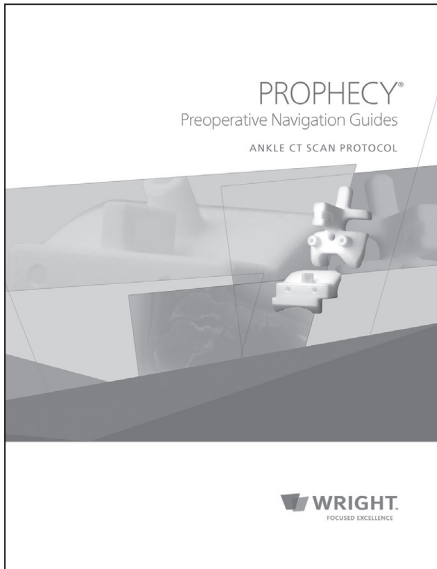
1. Osteomyelitis;
2. Insufficient bone stock or bone quality;
3. Infection at the ankle site or infections at distant sites that could migrate to the ankle;
4. Sepsis;
5. Vascular deficiency in the ankle joint;
6. Skeletally immature patients (patient is less than 21 years of age at the time of surgery);
7. Cases where there is inadequate neuromuscular status (e.g., prior paralysis, fusion and/or inadequate abductor strength), poor skin coverage around the joint which would make the procedure unjustifiable;
8. Neuropathic joints;
9. Excessive loads as caused by activity or patient weight;
10. Patient pregnancy;
11. Severely compromised musculature or neuromuscular function.
12. Uncooperative patient or patient with neurologic disorders, incapable of following instructions

WARNING: This device is not intended for subtalar or talonavicular joint fusion or impingement. Please carefully evaluate the anatomy of each patient before implantation. High levels of activity may increase the risk of adverse events. Surgeons should carefully consider the advisability of ankle replacement in patients with metabolic disorders or pharmacological treatments that impair bone formation or with conditions that may impede wound healing (e.g., end stage diabetes or malnutrition).

Prior to use of the system, the surgeon should refer to the product package insert for complete warnings, precautions, indications, contraindications and adverse effects. Package inserts are also available by contacting the manufacturer.

Contact information can be found on the back of this surgical technique and the package insert is available on the website listed.

CT Scan Protocol



PROPHECY Ankle CT Scan Protocol
#008380

PROPHECY Preoperative Navigation Guides are patient-specific instruments designed for total ankle replacement surgery. Failure to adhere to PROPHECY CT scan protocol may lead to denial of case. Engineers at Wright Medical have determined the necessary scanning parameters, which are described in the PROPHECY Ankle CT Scan protocol document 008380.

In every case, please have the scanning facility follow the specific instructions outlined in this document.

The Centers for Medicare & Medicaid Services (CMS) established a National Coverage Determination (NCD) for CT Scans. It states, in part, the following, "Diagnostic examinations of the head (head scans) and of other parts of the body (body scans) performed by computerized tomography (CT) scanners are covered if medical and scientific literature and opinion support the effective use of a scan for the condition, and the scan is: (1) reasonable and necessary for the individual patient." CTs performed prior to total joint replacement procedures for diagnostic purposes may be considered medically necessary. In which case, the procedure should be billed using the CPT codes that accurately describe the imaging procedure furnished to the patient. These same images from the diagnostic CT scan may, in turn, be further utilized for developing the personalized cutting or navigation guides that are used in orthopaedic procedures. However, if providers perform CT scans solely for the purpose of developing personalized cutting instruments or guides, providers should contact the payer for billing and coverage guidance and/or the American College of Radiology with billing questions.

NOTE: Use the provided anatomical models as an additional tactile and visual confirmation that the tibia guide is positioned correctly on the patient's anatomy.

Existing implants including prior TAR devices and cement spacers
Unless otherwise stated on the report, it is best to leave existing implants or cement spacers intact when placing the tibia alignment guide.

Ensure the area of the anterior tibia where the PROPHECY guide will surface match is completely free of soft tissue and place the PROPHECY Tibia Alignment Guide (PROPINV) in the best fit location. Please note that the guides are designed to fit in one and only one proper location.

- If the tibia guide does not sit flush against the tibia - before driving any pins into the bone - remove the PROPHECY guide and clean off any remaining soft tissue covering the bone.
- Re-evaluate the surface match fit between the guide and the bone. Repeat these steps until the guide sits flush against the bone in the best fit location.

The PROPHECY patient-specific tibial guide contains holes oriented vertically to hold 2.4mm K-wires to be used to check the alignment fluoroscopically. This K-wire is designed to match the dotted line contained in the provided preoperative report (labelled as "anterior view" in the PROPHECY INVISION Preoperative Plan). **FIGURE 2**

Once the Guide is in the proper location insert one 2.4 Steinmann Pin into one of the proximal holes of the Tibia Guide to temporarily hold it into position.

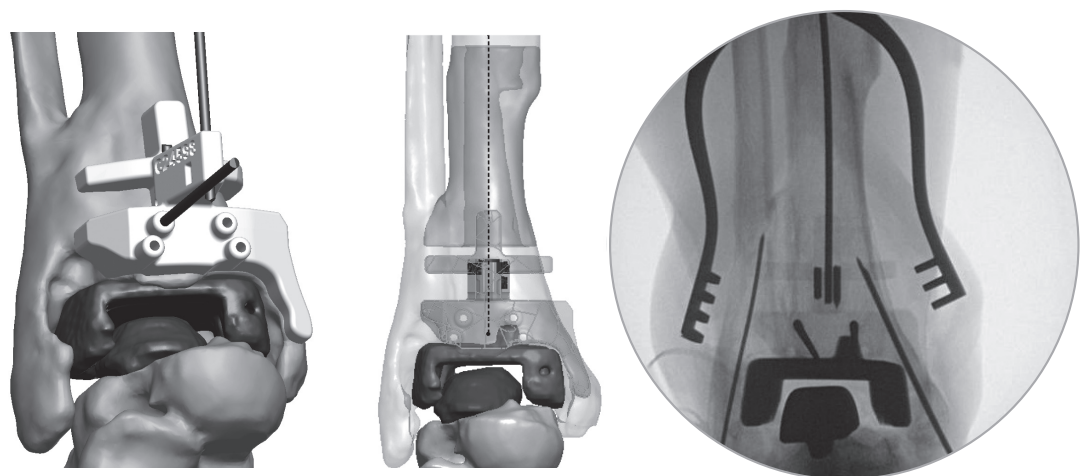


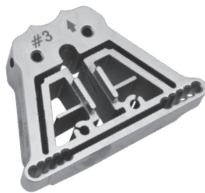
FIGURE 2: Tibia Alignment Guide

Once the desired fit and alignment is confirmed, place 2.4mm Steinmann Pins through the guide and through both cortices of the tibia where possible. Some pin holes may be blocked by existing implants. Place the pins through those holes into the anterior cortex up to, but not contacting, any implants. If pins need to be removed it may be helpful to mark the holes in the bone so they can be found again.

Do not cut the pins at this time. Remove the PROPHECY guide by sliding it up and over the pins, leaving the pins in place. It may be helpful to attach a Kocher clamp in the notches built into the rectangular anterior handle to pull the tibia guide up.

After any existing implants are removed, the Tibia Alignment Guide can be placed over the K-wires again to advance all pins through the posterior cortex.

Once pins are placed in the tibia, the patient-specific guide is removed and the Tibial Resection Guide is placed (PINV2000 - PINV5000 for INVISION, PTA00092 - 96 for INBONE) over the pins in the corresponding holes. Typically this means the proximal corners of the tibia resection slots and the "0" proximal holes (circled in red below). Refer to the Pre-operative plan for any details related to K-wire placement. **FIGURE 3**



Tibial Resection Guide
PTA00092 - 96



PINV2000-5000



PROPHECY INFINITY
Conversion Instrument
33600200

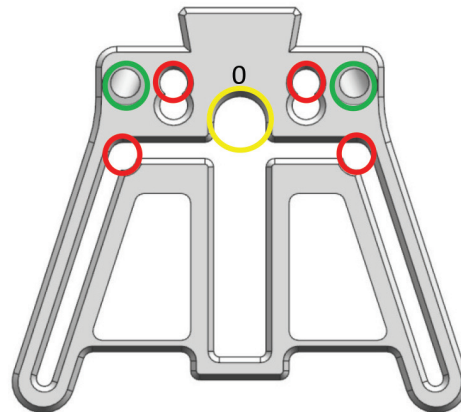


FIGURE 3: Tibia Resection guide

There are two holes directly distal, and intersecting with, to the "0" holes. The centers of the holes are 2 mm more distal than the "0" holes. They can be used to easily adjust the tibia resection 2 mm more proximal over the pins placed through the PROPHECY tibia alignment guide. These can be utilized if the tibia resection is found to be too distal intraoperatively, possibly due to bone that was removed when the prior implants were removed.

In rare cases, the PROPHECY Report will require the use of the PROPHECY INFINITY Conversion Instrument (33600200) for additional stability. Use of the Conversion Instrument also requires the 3.5mm Hex Driver (E5001005).

NOTE: Changing the tibia resection location or the type of guide to a different implant type is likely to prevent the tibia stem alignment guide from fitting on either the resected tibia, or the anterior tibial cortices.

The surgeon has the option to fluoroscopically verify the size and orientation of the Tibial Resection Guide prior to making the tibial resection. To minimize parallax the C-arm should be adjusted until the surgeon can see through each cut slot. Refer to the PROPHECY Preoperative Report for verification of the resection.

NOTE: At this point the surgeon can choose to revert back to the standard *INVISION* instrumentation and surgical technique if there are any concerns with the planned resection. Refer to the *INVISION* surgical technique for detailed instructions.



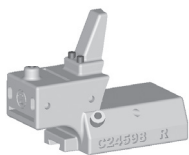
3.5mm Hex Driver
E5001005



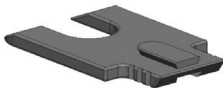
Anti-Rotation Notch Insert
200290002 - 200290006



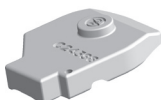
Anti-Rotation Notch Drill
200178002 - 200178006



Tibial Spacer
PROPINV



Spacer Shim
PINV0064



Talus Spacer
PROPINV

The surgeon may also choose to obtain a fluoroscopic lateral view of the ankle perpendicular to the installed resection guide.

Typically, a pin is placed in one of the off-axis holes of the tibia resection guide (circled in green in **FIGURE 3**) to provide additional stability for the resection guide. To avoid pinning into the posterior medial neurovascular bundle either utilize the medial converging pin or avoid pinning past the posterior cortex.

Using the Pin Cutter, trim the Pins flush to the surface of the Resection Guide. Leave enough length on the divergent pin to allow its removal with a pin driver or pin puller but short enough to allow for ease of resection with the saw.

Install the Anti-Rotation Notch Insert (200290002 – 200290006) into the Resection Guide. Using the appropriately sized Anti-Rotation Notch Drill (200178002 – 200178006) drill the tibia for the anti-rotation notch. (Highlighted in yellow in **FIGURE 3**) Be sure to drill bi-cortical.

Using the appropriate Saw Blade and oscillating bone saw, make the tibial resection. This includes cutting through the proximal, medial and lateral slots of the Resection Guide. Do not make the talar cut at this time.

The resection guide, off-axis pin(s), and corner pins are removed from the bone. The proximal parallel pins (for example, those occupying the “0” holes) can be left in place.

Ensure all bone is removed from the intended resections and the surfaces are clear.

CAUTION: In some instances, the resection of the distal medial malleolus must be completed outside the resection guide due to the dimensional restrictions of the guide. Failure to do so may increase the risk of medial malleolus fracture during the bone removal stage.

Joint Space Balancing

Refer to the patient specific report to determine what pre-existing hardware needs to be removed from the joint space. In order to re-create the preoperatively planned deformity correction, patient-specific Spacers (PROPINV) are provided. One Spacer interacts with the tibia and the second spacer is referenced to the talus. These spacers fill the joint space between the tibia and talus in order to allow the talus to be positioned relative to the tibia.

The talar spacer will be provided but is optional if the correction of the talus is minimal. In this instance you may utilize the Spacer Shims to provide necessary correction. If the joint space has laxity, you may use the Talus Spacer in conjunction with the Spacer Shims to stabilize the joint space and achieve correction of the talus.

The guides help set the varus/valgus and flexion/extension relationship between the tibia and talus intraoperatively. The resection depth for the talus is set manually with the procedure below. **FIGURE 4**

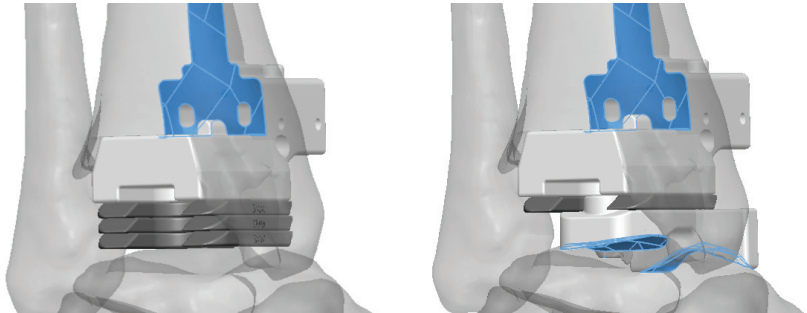


FIGURE 4

FIGURE 4: Joint spacing options on the talar side include using the plain reusable shims (PINV0064) or a semi-conforming patient talus spacer (PROPINV).

The patient-specific talus spacer is placed into the space. **FIGURE 5**
A pin may be placed through the talus spacer into the talus for stability. The patient-specific tibia spacer is inserted into the joint. This can be inserted either over the remaining parallel proximal tibial pins, or interacting with the lock detail of the existing INFINITY, INBONE, or INVISION Tibial Tray in the case of a talus only revision. If gross laxity between the tibia and talus is observed, shims (PINV0064) may be added between the tibia and talus spacer to provide stability and drive the angular correction of the deformity as determined preoperatively. Each shim has a thickness of 3 mm. The shims interact with other shims and with the tibia spacer dovetail connections. The talus spacer does not interact with the dovetail connection; instead, there is a cylindrical boss protruding from the talus spacer that interacts with the U-shaped feature of either the shims or the tibia spacer, depending upon what is inserted into the space. This cylindrical feature provides some medial-lateral constraint while allowing for internal/external rotational flexibility and some A-P translation.



Talus Guide Capture
PINV0074



Guide Capture Knob
PINV0075



Talus Resection Guide
PINV1000

Talus Resection

The adjustable Talus Guide Capture (PINV0074) is assembled into the anterior slot of the patient-specific tibia spacer guide (PROPINV) with the Guide Capture Knob (PINV0075) locking the adjustable Talus Resection Guide (PINV1000). **FIGURES 5-7**

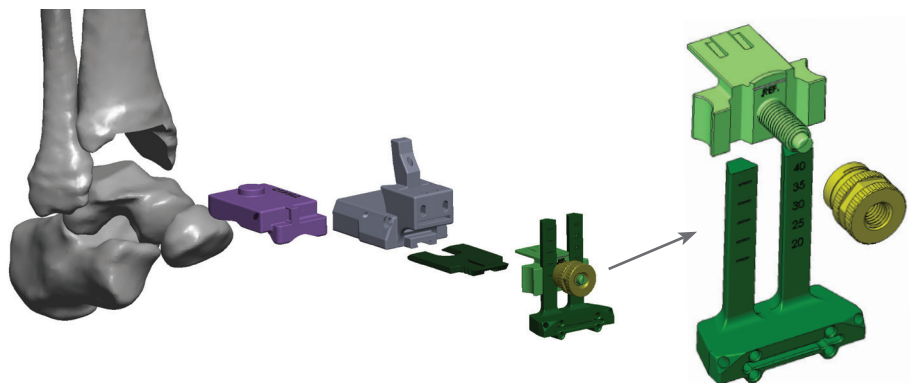
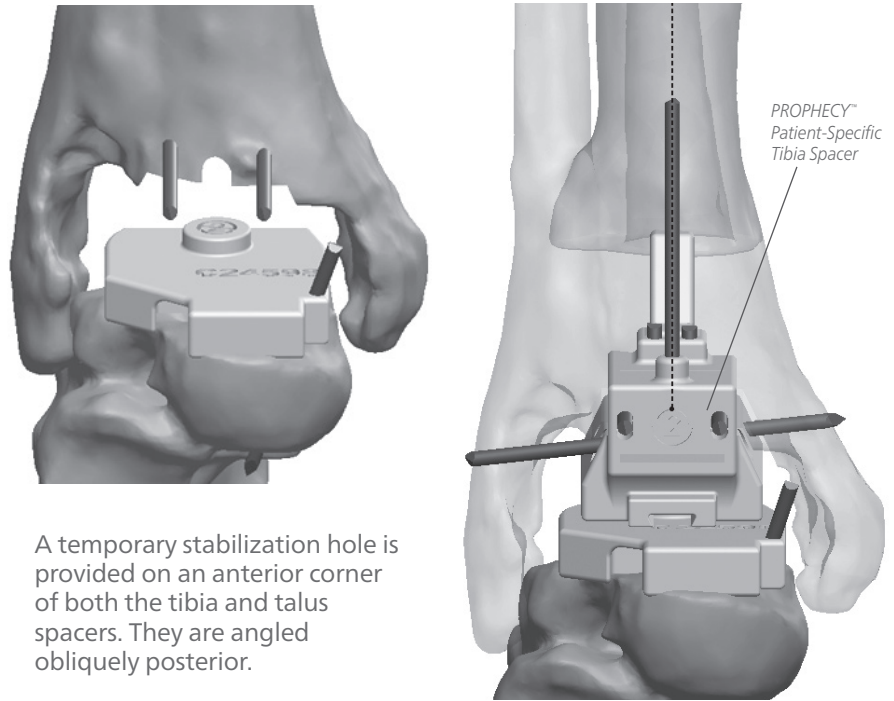


FIGURE 5: Exploded views of spacer guides and adjustable talus resection instruments.



A temporary stabilization hole is provided on an anterior corner of both the tibia and talus spacers. They are angled obliquely posterior.

FIGURE 6: Insertion of the Talus spacer guide and tibia spacer guide.

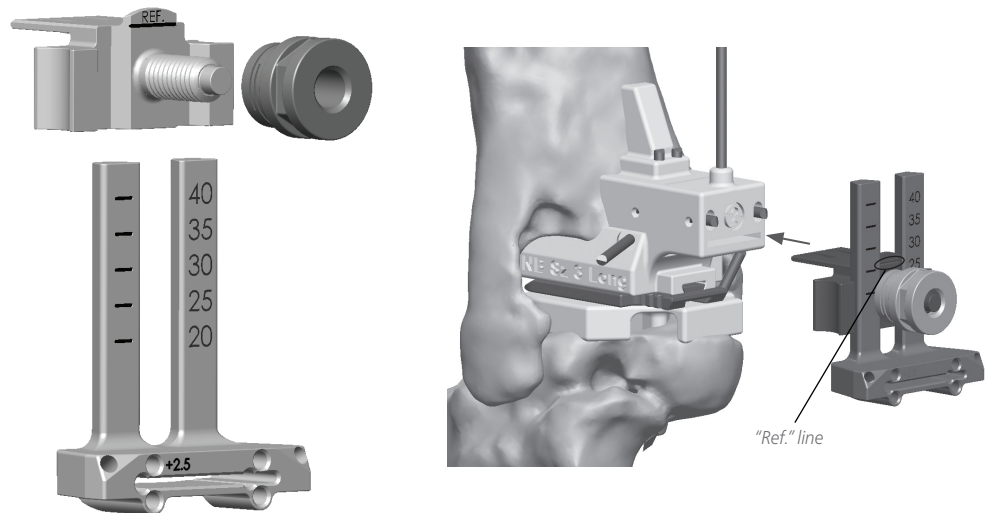


FIGURE 7: Assembly of the adjustable Talus Resection Guide into the Tibia Spacer Guide. Combining of Talus Guide Capture (PINV0074), Guide Capture Knob (PINV0075), and Talus Resection Guide (PINV1000).

Before pinning, the surgeon should hold the foot at neutral (90°) flexion and neutral hindfoot varus/valgus orientation. The talus resection slot position is adjusted proximal and distal. A lateral fluoro image can facilitate visualization of the resection depth. K-wires or the saw blade may be inserted at the level of the talus resection to visualize the resection and to determine the appropriate resection level intraoperatively. The resection depth and talus orientation is determined by the surgeon and is not set by the PROPHECY system. **FIGURE 8**

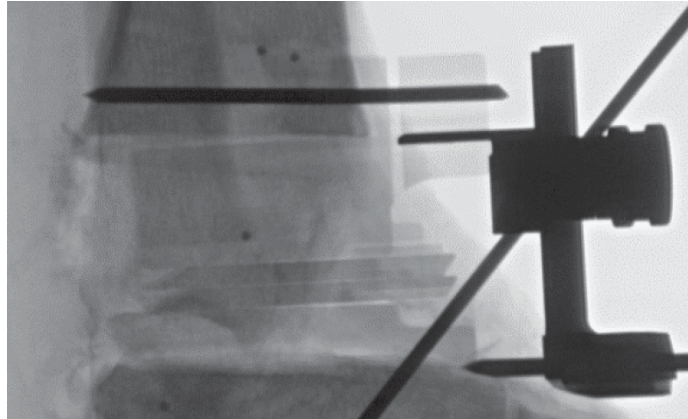


FIGURE 8

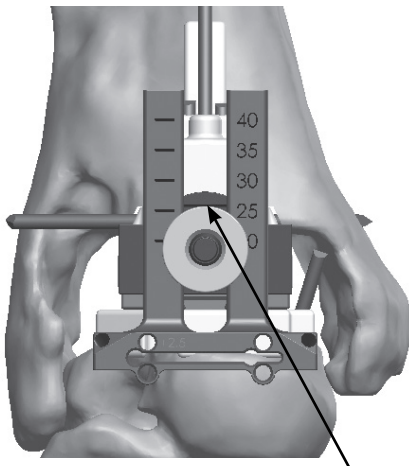


FIGURE 9 Resection Height "Ref." line

Coronal fluoro-check: a fluoro check of the tibia spacer's coronal alignment can be used. Refer to the report guide pages for the tibia guide and spacer guides; the vertical black dashed lines are identical.

Markings on the Talus Resection Guide (PINV1000) indicate the distance of the talus resection from the tibia resection. There is a small "Ref." line on the Talus Guide Capture (PINV0074) for referencing the resection depth. **FIGURE 9** The surgeon will need to refer to the implant thicknesses in order to consider which thickness of implant may be appropriate for the overall resection height.

With the talus resection guide at the desired resection level pins are placed through the anterior holes. **FIGURE 10** A pin should be placed in a hole on both the medial and lateral side. Use caution when driving pins through the talus resection guide to avoid pinning into the spacer guides or shims as this could cause damage or make spacer guide removal difficult. After placing at

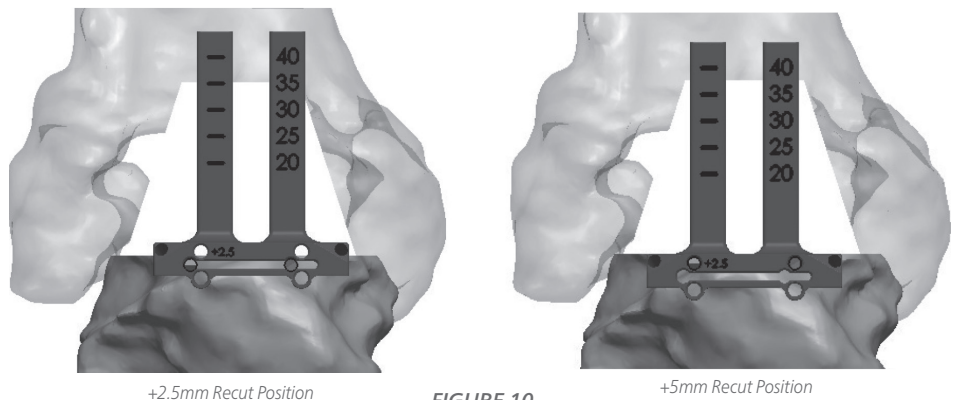


FIGURE 10

least two pins the entire construct is removed except the pins from the talus resection guide. The talus resection guide is slid back over the pins by itself. The reason for removing the entire construct is twofold:

- 1) To prevent resecting into the spacer instruments
- 2) To allow the talus resection guide to be positioned as close to the talus as possible.

If for any reason the talus resection depth needs to be adjusted there are additional holes in the resection guide that allow adjustment of the resection depth by 2.5 mm both proximal and distal to the cut slot. **FIGURE 10**

Pins may be placed in both the medial and lateral oblique holes of the talus resection guide. **FIGURE 11** The parallel talus K-wires may be trimmed, or removed, to prevent interference with the saw. The oblique K-wires may be left long enough that they can be removed after completing the talus resection.

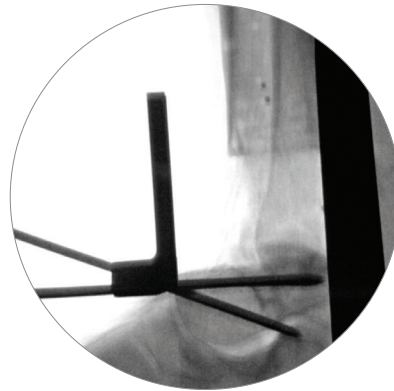


FIGURE 11: Talus Resection guide with converging oblique K-wires placed into the talar body.

The talus is resected, the pins are removed, and the space is cleared of all resected bone down to the level of the flat cut.

If necessary, use the drill and appropriate size drill bit to provide additional definition of anti-rotation notch. Take care not to widen the notch. A reciprocating saw or bone rasp may be used to remove excess bone, taking care to follow the previously made cut line. Remove loose bone pieces and irrigate the joint space. **FIGURE 12**

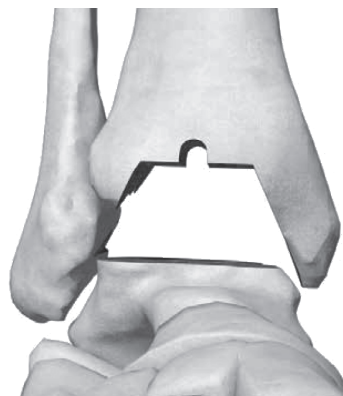


FIGURE 12

Preparing the Tibia Canal

Slightly distract the ankle and place the PROPHECY Tibial-Stem Alignment Guide (PROPINV) into the resected joint space. The guide has surface matching features referencing the anterior surface of the tibia, the distal medial and lateral surfaces of the tibia resection and occasionally the inner surface of the medial malleolus and fibula for additional stability. Shims may be placed in the distal dovetail as necessary to provide stability for the tibia stem guide and talus. **FIGURE 13**

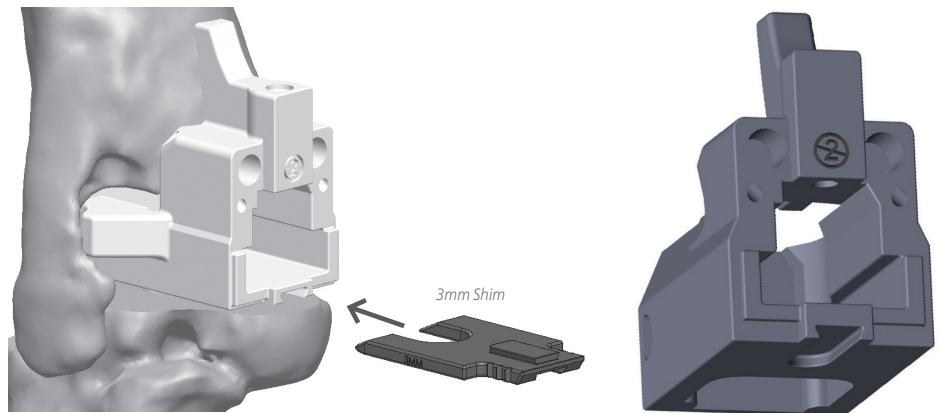
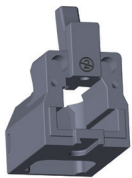
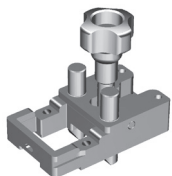


FIGURE 13



PROPHECY Tibial Stem Alignment Guide
PROPINV

Place the metal Anterior Mounting Plate (PTA00040) onto the anterior surface of the PROPHECY Tibial Stem Guide. The two metal dowel pins protruding from the back side of the Anterior Mounting Plate are designed to fit into round holes of the PROPHECY Guide. The two flat mating surfaces must be fully seated. **FIGURE 14**



Anterior Mounting Plate
PTA00040

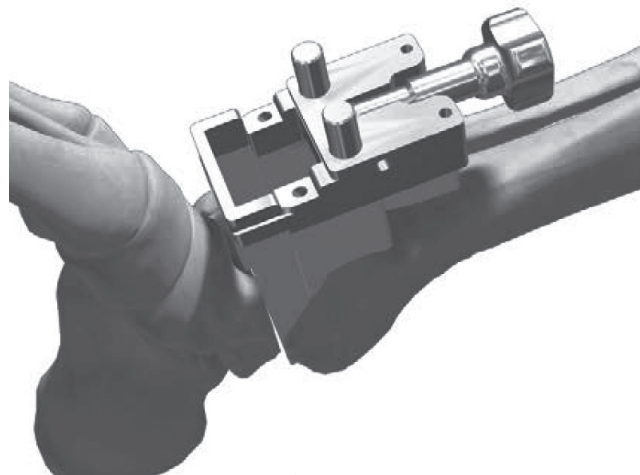


FIGURE 14

Insert the Drill Guide Cartridge (PTA00070) into the PROPHECY™ Tibial Stem Guide. The cartridge is fully seated when the ball detent is engaged and the anterior surfaces of the Drill Guide Cartridge and the Anterior Mounting Plate are flush. **FIGURE 15**



Drill Guide Cartridge
PTA00070

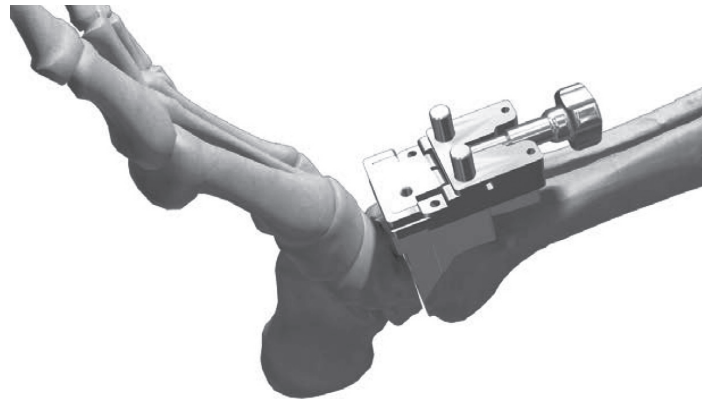


FIGURE 15

Alternatively the PROPHECY Tibial-Stem Guide, Anterior Mounting Plate, and Drill Guide Cartridge may be assembled outside of the foot and then inserted into the joint space in one step.

Check a lateral fluoroscopic image to ensure that the PROPHECY Stem Alignment Guide is properly seated to the resected tibia. When the Stem Guide is properly seated, the metal Drill Guide Cartridge will appear flush to the surface of the resected tibia. **FIGURE 16**

NOTE: See Appendix B for an optional AP fluoro check.



FIGURE 16

2.4mm Steinmann Pins may be used through the anterior mount plate and stem guide to stabilize the guide to the tibia. If Steinmann Pins are used, bend the medial and lateral pins medially and laterally, respectively, in order to provide clearance for the Drill Guide Cartridge to be removed later.

CAUTION: The surgeon is encouraged to avoid putting K-wires in holes of the anterior mount plate if they will result in weakening the tibia bone. If the Steinmann Pin holes will cause a stress-riser, the guide may be held in place by hand, without adding all K-wires, by a member of the surgical team during the 6mm drilling and tibia canal reaming steps.

Build the C-Bracket Assembly

Connect the Toe Plate (PTA00050) and the Bushing Attachment (PTA00020) to the C-Bracket (PTA00010). **FIGURE 17**

The C-Bracket is symmetrically designed to be used on either the medial or lateral side of the foot based on surgeon preference.

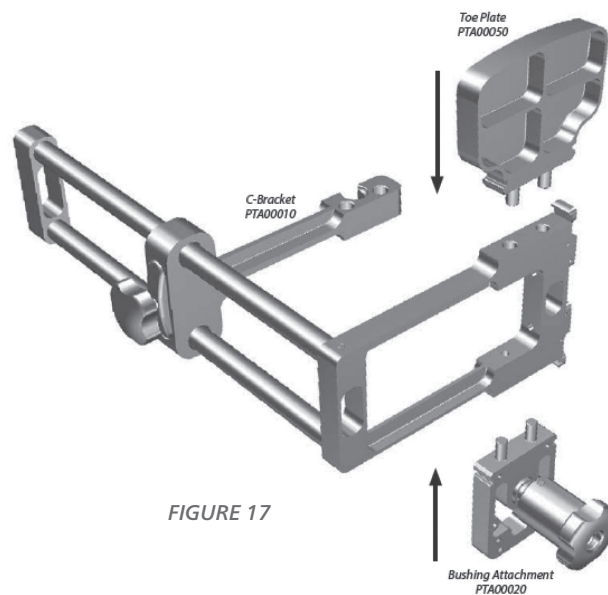
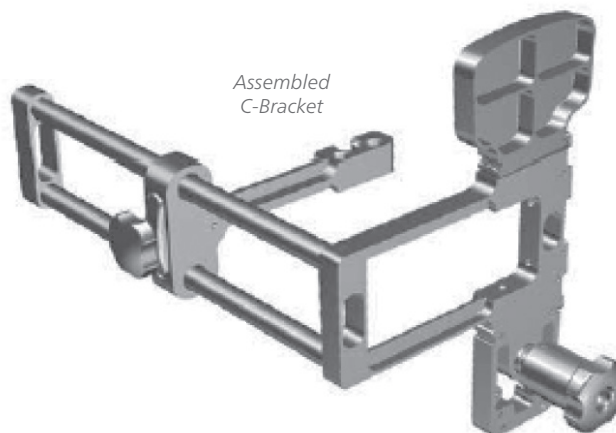


FIGURE 17



It is recommended to place a surgical bump under the Achilles prior to drilling through the C-Bracket. **FIGURE 18** By placing a bump proximal to the talus, it will prevent the back of the heel from resting on the surgical table and potentially translating anterior in relation to the tibia. When properly aligned, the C-Bracket will place the 6mm drill anterior and medial to the posterior facet of the subtalar joint. Under a lateral fluoroscopic image, the drill should appear to be in line with the lateral process of the talus. **FIGURE 19**

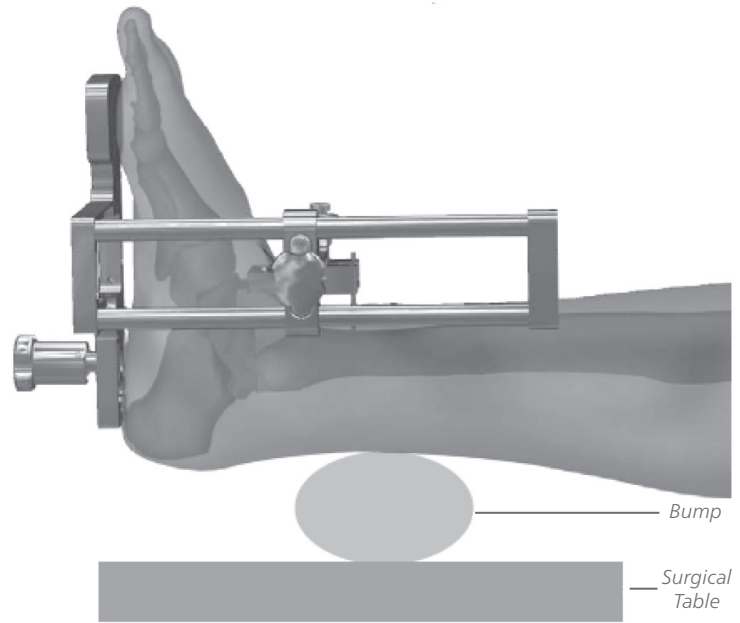


FIGURE 18

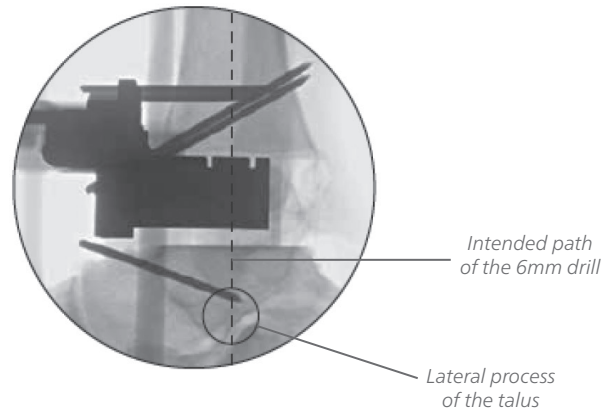


FIGURE 19

Drill Primary Hole

Lower the C-Bracket assembly down over the Anterior Mounting Plate and attach through the two protruding dowel pins. **FIGURE 20** The surface of the C-Bracket arm must sit flat against the Anterior Mounting Plate.

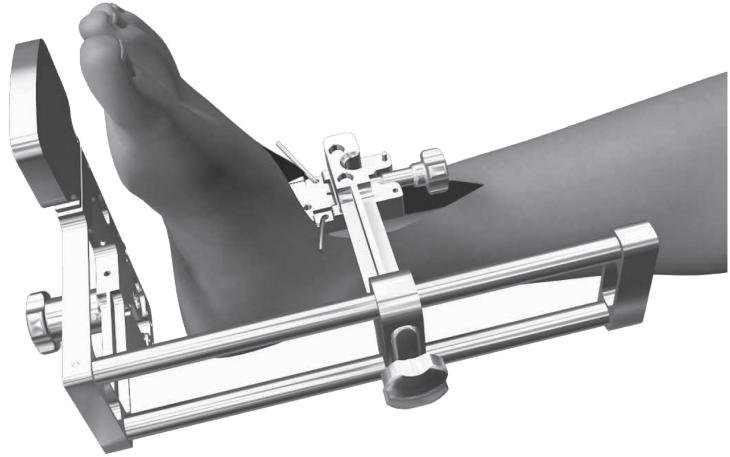


FIGURE 20

Secure the C-Bracket to the Anterior Mounting Plate by rotating the swivel rod up and over the C-Bracket arm and tightening the screw on the end of the swivel rod. **FIGURE 21**

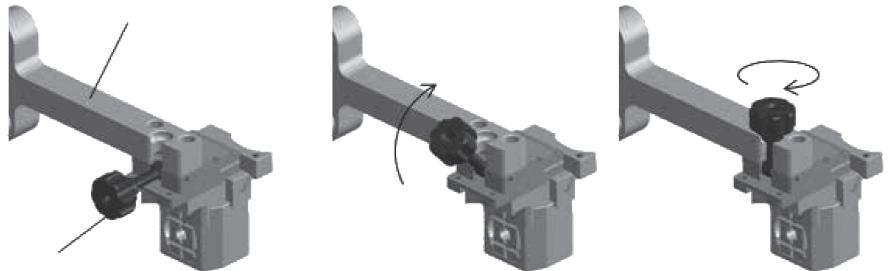
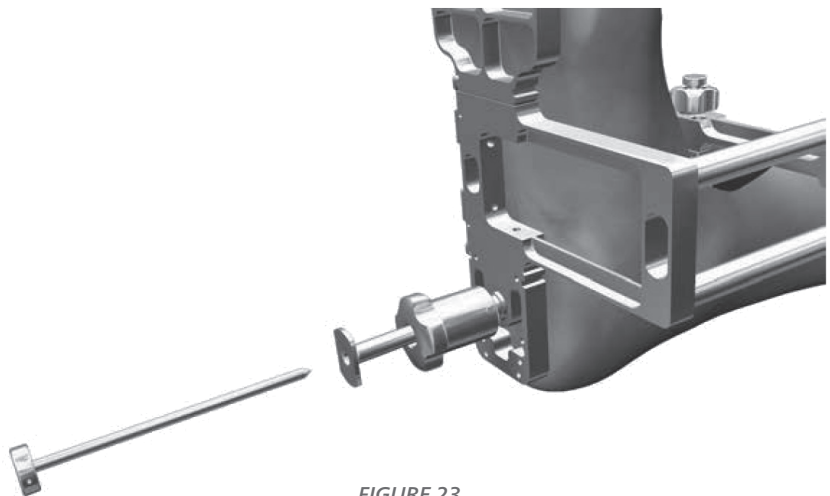
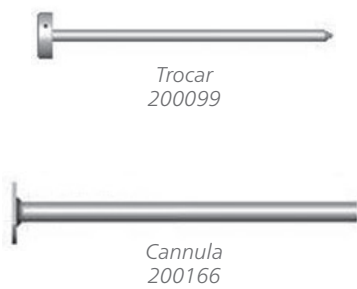


FIGURE 21

Place the foot in slight dorsiflexion. Press and hold in the slide lock button on the outside arm of the C-Bracket and slide the distal end of the C-Bracket assembly close to the bottom of the foot. Leave a slight gap between the heel and the Bushing Attachment to facilitate its removal. **FIGURE 22** To prevent the C-Bracket assembly from binding while adjusting the length, push the bottom of the assembly in-line with the side rods. Release the slide lock button and tighten the slide lock knob to lock the position of the C-Bracket.

With a skin marker, put ink on the tip of the Trocar (200099) and insert into the Cannula (200166). Insert the Trocar and Cannula through the Bushing Attachment and push the tip against the skin to mark the incision point. **FIGURE 23**



Remove the Trocar and Cannula and push the Bushing Release Button on the C-Bracket to remove the Bushing Attachment. Centering on the previously marked spot, insert a #15 Scalpel and make a 1 cm vertical incision in the bottom of the heel. **FIGURE 24**

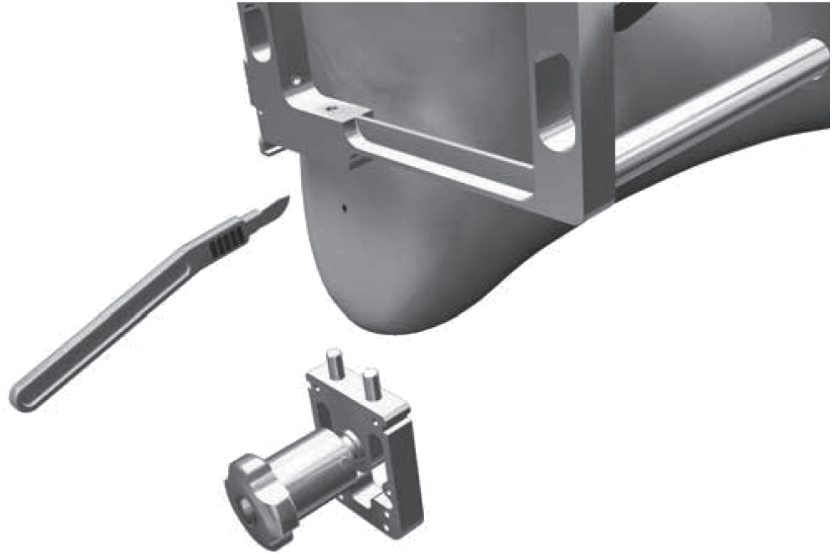


FIGURE 24

Reattach the Bushing Attachment to the C-Bracket, and re-insert the Trocar and Cannula, pushing through soft tissue in the bottom of the foot, rotating the Cannula until it lightly contacts the calcaneus.

CAUTION: *Pushing too hard on the calcaneus will disturb alignment.*

Lock the Cannula in place by tightening the outer knob of the Drill Bushing. Remove the Trocar and place the 6mm Drill (200134) through the Cannula and slowly peck-drill through the calcaneus and talus. **FIGURE 25** The tip of the 6mm Drill will be captured and guided by the conical anti-skiving feature of the Drill Guide Cartridge. Continue drilling into the tibial canal.

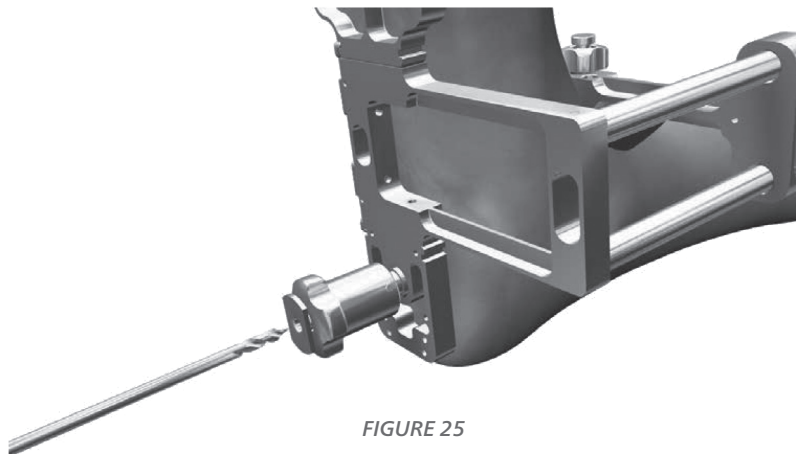


FIGURE 25

CAUTION: When drilling the IM canal it is important to take both an AP and Lateral fluoro image to ensure that the drill is going the canal as planned.

An AP fluoro image will show the single notch in the Drill Guide Cartridge which is the desired/planned target for the 6mm Drill. **FIGURES 26 and 27**

A Lateral fluoro image will show the two notches in the Drill Guide Cartridge that the 6mm Drill should go between. **FIGURES 28 and 29**



FIGURE 26

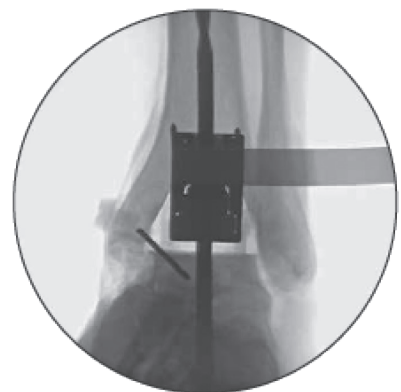


FIGURE 27

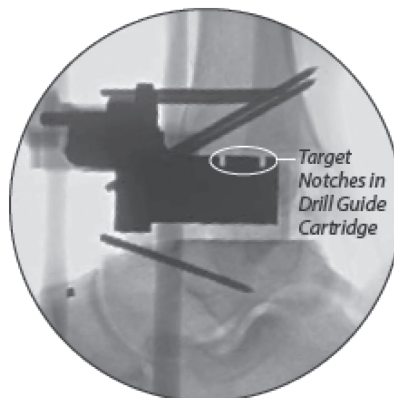


FIGURE 28



FIGURE 29

Ream the Tibia

Remove the 6mm Drill from the foot and C-Bracket. Attach the M4 Attachment Screw (200329103) to the anterior threaded hole on the Drill Guide Cartridge and pull the Cartridge out anteriorly. **FIGURE 30**

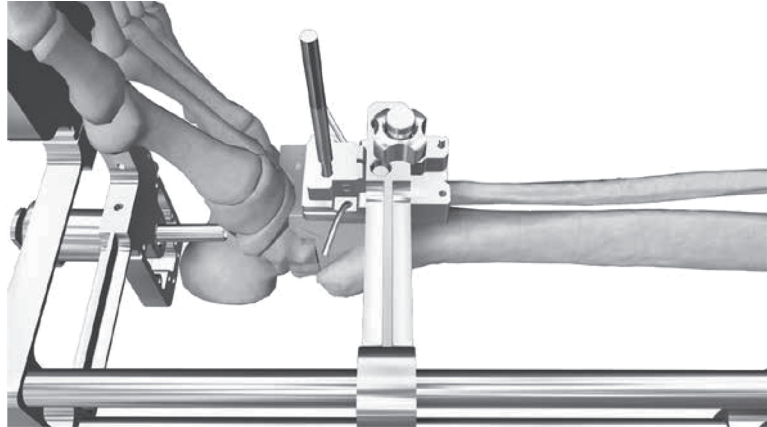


FIGURE 30



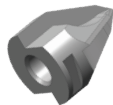
M4 Attachment Screw
200329103



Tibial Stem Clip
200381001 - 200381004



Tibial Reamer Tip
200046001 - 200046004



Sharp Reamer Tip
22001200 - 22001800



Tibial Reamer Drive Rods
200089 or 200395 (T-Handle)

With the C-Bracket still secured, place the Reamer Drive Rod (with Jacobs chuck attached) through the distal bushing, calcaneus, and talus and into the resected joint space.

Using the appropriate size Tibial Stem Clip (200381001 – 200381004), attach and lower the appropriate size Reamer Tip (Standard 200046001 – 200046004, Sharp 22001200 – 22001800) into the joint space through the anterior opening of the Anterior Mounting Plate. **FIGURE 31**

Connect the Reamer Tip to the Reamer Drive Rod (200089 or 200395) and push the tip of the Reamer into the 6mm hole in the Tibia.

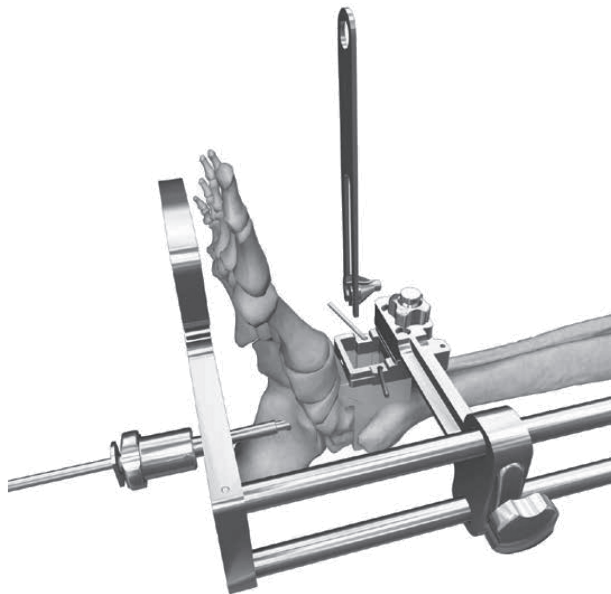


FIGURE 31

Ream the tibial IM canal to the depth of the tibial stem construct determined by the preoperative plan. Note that the Reamer Drive Rod is marked with a depth indicator that can be viewed through the anterior window.

CAUTION: *It is highly recommended that AP fluoro images are made throughout the tibial reaming process to ensure the reamer is following the planned path.*

Pull the Reamer back into the joint space.

CAUTION: *Do not reverse the drill rotation while the Reamer Tip is still in the tibia, as it will become unthreaded and remain in the tibia.*

Using the appropriate sized Tibial Stem Wrench (200380001 – 200380004), unthread the Reamer Tip from the Drive Rod and remove from the joint space. Repeat the reaming steps for all sizes of reamers required/desired.

CAUTION: *It is strongly recommended that the surgeon use irrigation to clean the joint space between reamer sizes to prevent debris from interfering with instrument attachments.*

Leave the Reamer Drive Rod in the foot with the tip slightly distal to the surface of the talar resection.

Release the screw and swivel rod attachment from the Anterior Mounting Plate.

Release the slide lock on the side arm of the C-Bracket Assembly and, with the Reamer Drive Rod still in the foot, slide the distal portion of the C-Bracket Assembly away from the bottom of the foot.

Release the Toe Plate Attachment from the C-Bracket Assembly by pressing the button on the side of the foot plate. **FIGURE 32**



Tibial Stem Wrench
200380001-0004

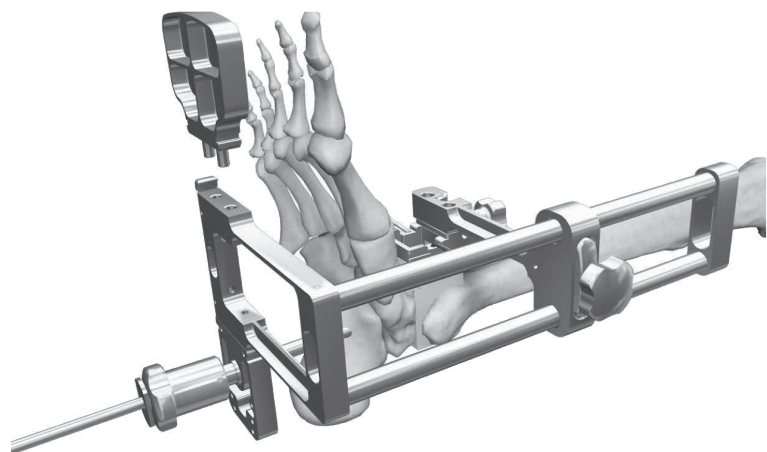


FIGURE 32

Release the Bushing Attachment from the C-Bracket Assembly by pressing the button on the side of the Foot Plate. Lift the C-Bracket off the foot anteriorly leaving the Bushing Attachment on the Reamer Drive Rod. **FIGURE 33**

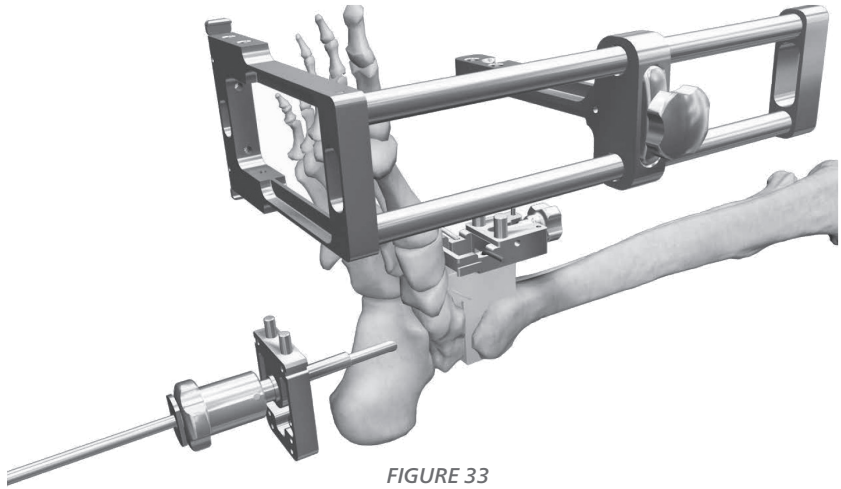


FIGURE 33

Remove the Anterior Mounting Plate and PROPHECY Tibial Stem Guide from the joint space and slide the Bushing Attachment along the Drive Rod until it contacts the bottom of the foot and secure to the calcaneus with three 2.4mm Steinmann Pins. Two pins can be inserted through the bottom holes of the bushing attachment (one medial and one lateral) with the third pin in one of the top hole locations (preferably on the lateral side). **FIGURE 34** Remove the Drive Rod.

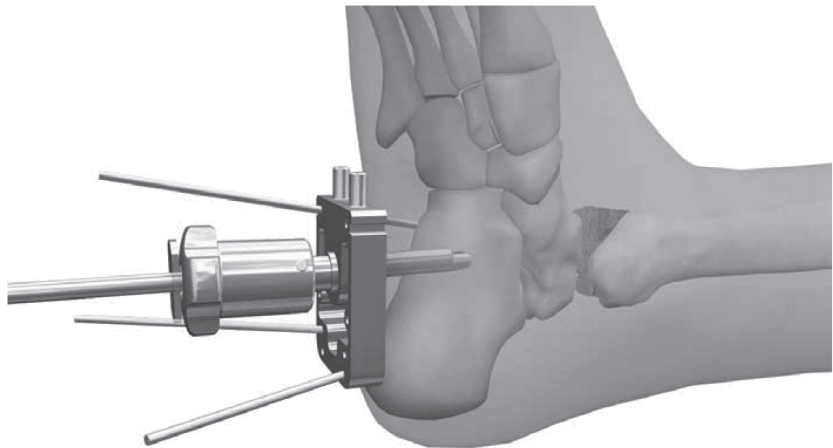


FIGURE 34

Tibial Trialing

Select the appropriate size Tibial Tray Trial (INVISION 60022400 – 60025800 or INBONE IB600020 – IB600060). Insert trial into the resected joint space using the M4 Holding Tool (200364003). Use the Strike Rod (200085) to fully seat the Tibial Tray Trial. Utilizing lateral fluoroscopic imaging, evaluate the anterior and posterior coverage of the tibial cortex. Determine if a standard or long tibial tray is appropriate and opt for overhang both anteriorly and posteriorly if the anatomy is between sizes. Note to check with both the +4mm and +8mm INVISION Tibial Tray Trials for a given size since the tibial lengths vary. **FIGURES 35A and 35B**

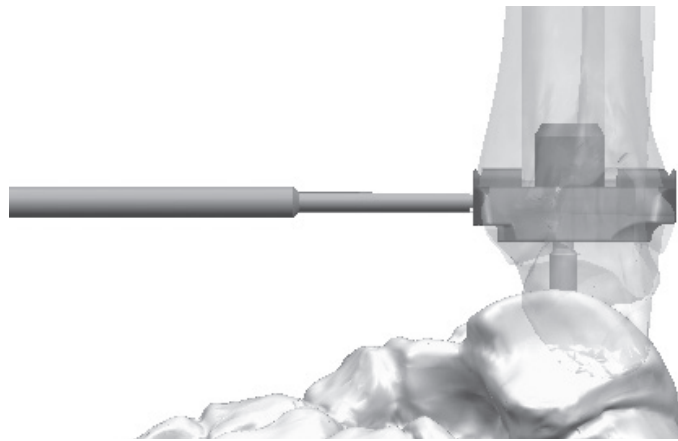
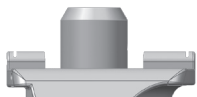
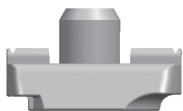


FIGURE 35A



INBONE Tibial Tray Trial
IB600020 – 600060



INVISION Tibial Tray Trial
60022400 – 60025800



M4 Holding Tool
200364003



Strike Rod
200085

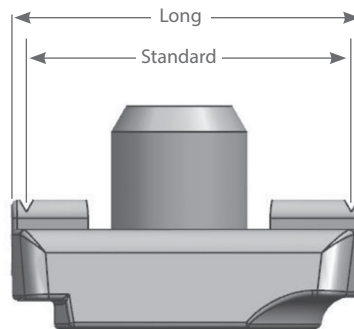


FIGURE 35B

NOTE: It is critical to obtain sagittal plane coverage of the tibia, particularly anteriorly where more load is concentrated. Thus, in choosing the correct size, overhang with a longer prosthesis is preferred relative to shorter implants that do not reach the cortices.

The Tibial Tray Trial is also used to check the tibial cut surfaces and ensure that no bone fragment will impede proper positioning and seating of the Tibial Tray Implant. Remove excess bone as necessary and irrigate. **FIGURES 36 and 37**

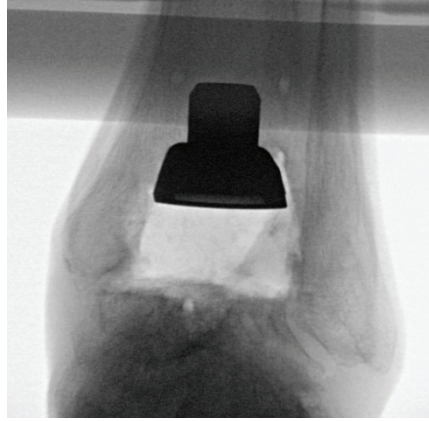


FIGURE 36

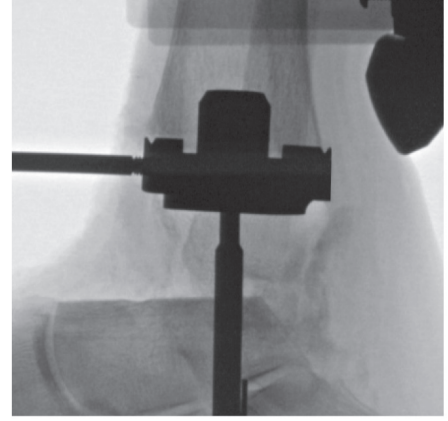


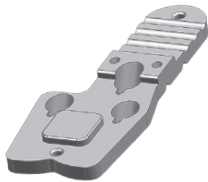
FIGURE 37



*Poly Insert Trials
IB202206-6516*



*Talar Dome Trials
IB220801-805*



*Talar Plate Trials
60001010-1150*



*3mm Talar Plate Spacer
60003001*

To assess if sufficient amount of bone has been removed for the implant construct, the resected bone must be trialed with the Tibial Tray Trial, Polyethylene Insert Trial (IB202206-6516), and Talar Dome Trial (IB220801-805), Talar Plate Trial (60001010-1150), and optional 3mm Talar Plate Spacer (60003001). **FIGURE 38**

Do not be concerned with the positioning of the trial components at this time. Only the construct height is being assessed. Final position and component selection will be completed in subsequent steps.



FIGURE 38

Using the Poly insert Trial Holding Tool (IB200110) install the appropriate size Poly Insert Trial into the Tibial Tray. The locking tab of the Poly Insert Trial should engage the Tibial Tray.

To attach the Holding Tool to the corresponding trial component, insert the tip of the tool into the keyed slot and turn 90° counter-clockwise to lock the connection. **FIGURE 39**

To remove the holding tool turn the handle 90° clockwise and remove.

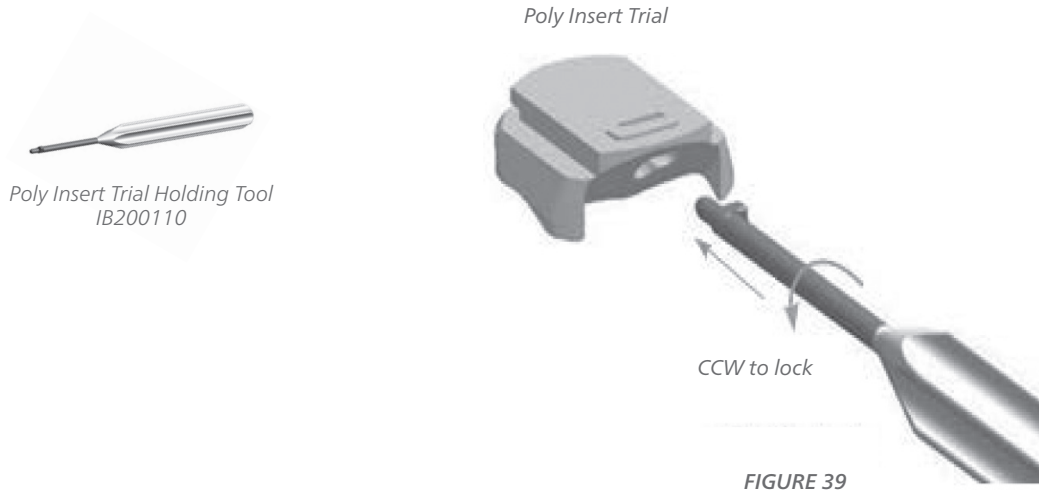


FIGURE 39

Trial Reduction

The Talar Plate Implant size may be equivalent to the Tibial Tray Implant size, one size larger than the Tibial Tray, or one size smaller. For example, a Size 3 Tibial Tray may utilize a Size 2, 3, or Size 4 Talar Plate. The Talar Dome Implant could be equivalent to the size of the Tibial Tray or one size smaller. If additional thickness is required to rebuild the anatomical joint line, utilize the 3mm Trial Talar Plate Spacer (60003001) to assess height of required Talar Plate.

While the final polyethylene thickness does not have to be definitively chosen during the trial phase, it is important to have what is perceived to be the appropriate size Poly Insert Trial to accurately determine the placement of the talar component. The Poly Insert Trial used for the reduction should fit appropriately to determine the center of rotation of the talar component; therefore, trialing multiple sizes may be necessary. Note that after insertion of the talar plate and talar dome implants, the height of the poly can be reassessed.

In order to determine proper polyethylene height the following factors should be considered:

- Smooth range of motion of the ankle without anterior or posterior impingement.
- Ligaments are tensioned both medially and laterally without over-tensioning. Over-tensioning is noted when the trial talar component tilts following trial poly insertion. Alternatively, with range of motion, the talar component becomes incongruent with the trial poly, which can identify too much tension on the ankle replacement.
- Stress the ankle joint into varus and valgus. The trial components should not tilt.
- The trial poly should engage the sulcus in the talar dome trial without allowing medial/lateral translation.

Under lateral plane fluoroscopy ensure the posterior portion of the Talar Plate and Talar Dome Trial components are resting on the posterior portion of the patient's residual talus (establish congruence). Two length options are available for INVISION Talar Plates (standard and long). These options are available to ensure best possible coverage of talar resection. **FIGURE 40**

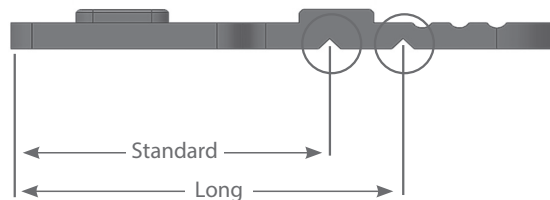
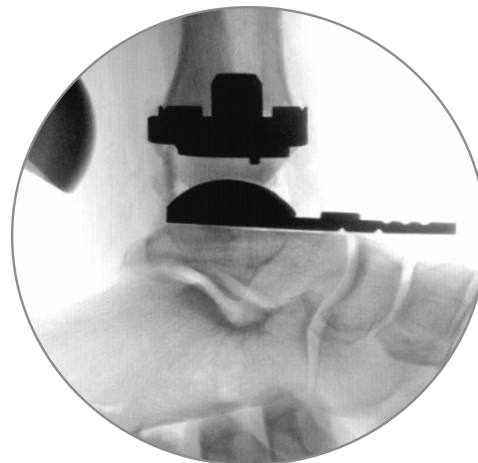


FIGURE 40



To accurately perform the range of motion, place some axial compression on the components to maintain position, and flex and extend the ankle. The surgeon will observe the talar component rotating into the anatomic position for this particular patient.

***NOTE:** The surgeon must not only be cognizant of the talar position in the lateral plane, but must simultaneously maintain medial/lateral coverage as evidenced by the previous A/P plane fluoroscopic views.*

Once the Talar Dome Trial and Talar Plate Trial have settled into optimum anatomical position, install two 2.4mm Steinmann Pins through the Talar Plate Trial into the calcaneus for additional stability and to temporarily hold it in place. **FIGURE 41**

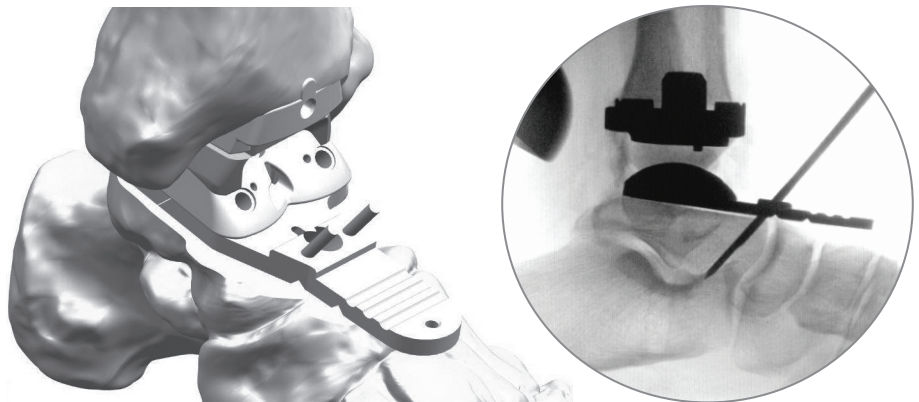


FIGURE 41

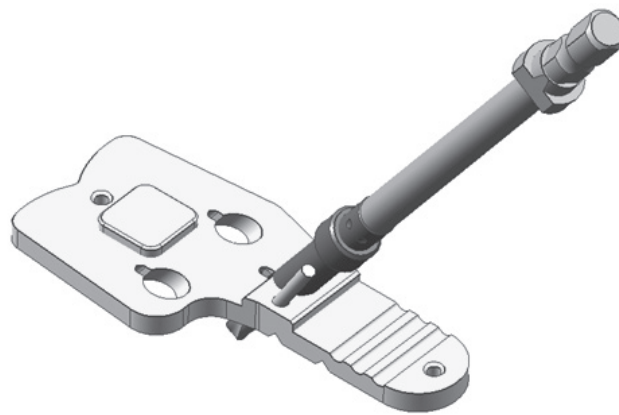
***CAUTION:** Place pins by hand and ensure that pins do not cold weld while driving in via power.*

***NOTE:** With the talar component pinned in position, the surgeon should once again place the ankle through a range of motion to ensure tibio-talar articular congruence. Also, confirm through lateral fluoroscopy that the prosthesis did not shift anteriorly.*

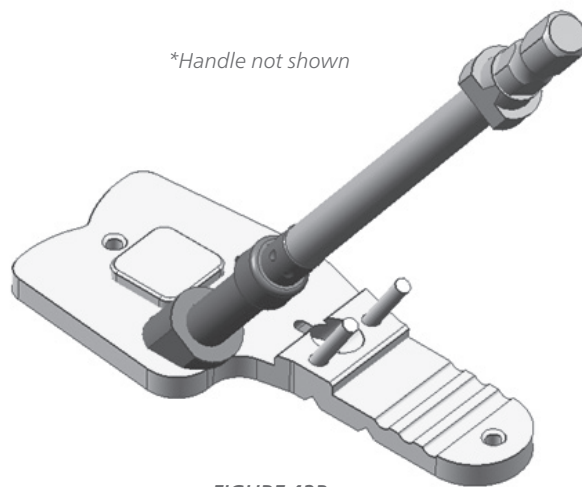
Cut the pins approximately 1.5" long and remove all trials except for the Talar Plate Trial from the joint space.

Talar Preparation

Clip the Anterior Peg Drill Guide (60006011) and Peg Drill Handle (60006012) together, ensure that the Talar Plate Trial is flush to talus and slide Peg Drill Guide into Anterior Peg Hole. **FIGURE 42A** With the Peg Drill (60006022), drill for your anterior peg. Use the Posterior Peg Drill Guide (60006027) for the posterior holes. Follow same steps listed above to prep for medial and lateral posterior pegs. **FIGURE 42B** Once both posterior pegs are prepped, remove Talar Plate Trial and 2.4 pins.



**Handle not shown*



Tibial Trialing

Select the appropriate size Tibial Tray Trial. Insert trial into the resected joint space using the M4 Holding Tool (200364003). Use the Strike Rod (200085) to fully seat the Tibial Tray Trial. Utilizing lateral fluoroscopic imaging, evaluate the anterior and posterior coverage of the tibial cortex. Determine if a standard or long tibial tray is appropriate and opt for overhang both anteriorly and posteriorly if the anatomy is between sizes. Note to check with both the +4mm and +8mm INVISION Tibial Tray Trials for a given size since the tibial lengths vary. **FIGURES 43 and 44**

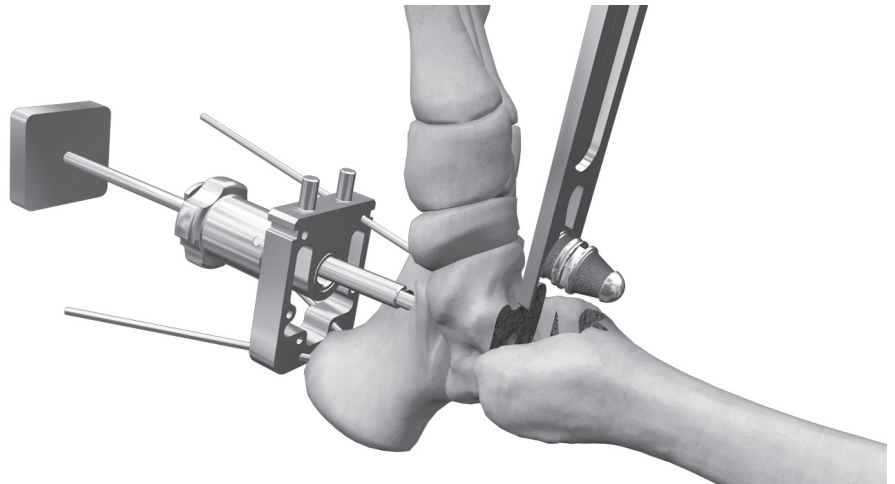


FIGURE 43

The INBONE tibial trays may also be considered if they provide sufficient thickness and anterior-posterior coverage of the tibial cortex.

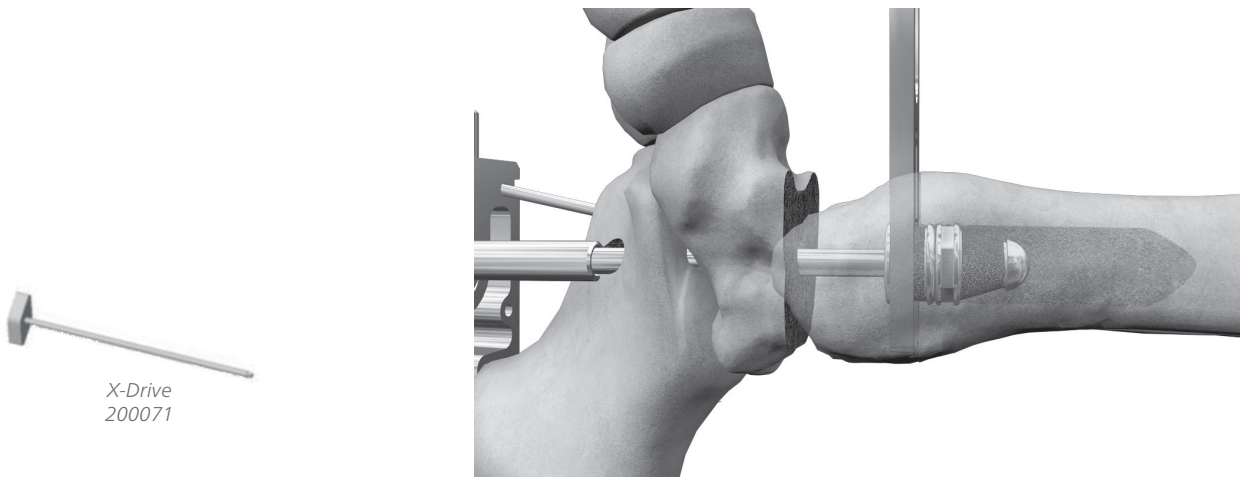


FIGURE 44

An assistant should hold the Wrench while the surgeon installs the next Mid Stem piece. Insert the next Mid Stem piece onto the appropriate sized Clip, introduce into the joint space and align with the Mid Stem piece. An assistant may hold on to the Wrench and distract the joint to aid insertion of the next piece. **FIGURE 45**

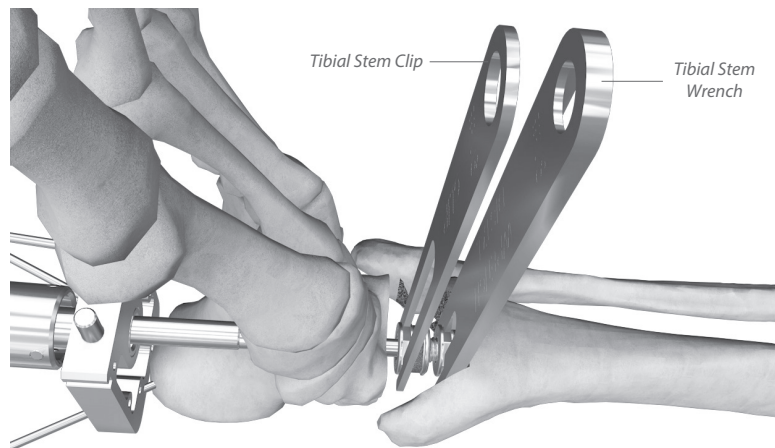


FIGURE 45

Engage the X-Drive and thread the stems firmly together. Move the Wrench to the distal Stem piece before pushing the Stem up into the tibia.

CAUTION: Always leave the Wrench on the distal stem piece, or the stem construct may be inadvertently pushed up into the tibia. If the stem pieces are inadvertently pushed into the tibia, please see Appendix C for stem retrieval instructions.

Select the appropriate Base Stem piece and introduce with a Clip. Tightly thread the Base Stem using the X-Drive. Remove the Clip and insert a Wrench on the Base Stem. **FIGURE 46**

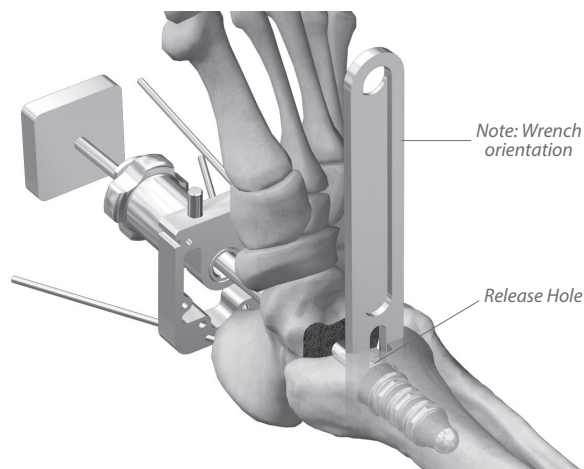


FIGURE 46

With the Base Stem tight, remove the Wrench and rotate the stem construct so the Morse taper release hole is pointing anteriorly and is in line with the anti-rotation notch. The Base Stem release hole is used to detach the Tibial Base Stem from the Tibial Tray in the event of revision. Place the Wrench back on the Base Stem.

Install Tibia Tray

Irrigate the Morse Taper surface of the Base Stem to clean it.

CAUTION: *The Morse Taper surfaces should be clean and dry for proper seating.*

Remove the X-Drive and replace with the Strike Rod. Hold the Tibial Stem Base with the Wrench and introduce the Tibial Tray using the Holding Tool (200364003). Insert the Morse Taper into the Stem Base. Push the Strike Rod into the small detent on the bottom surface of the Tibial Tray. Apply cement to the top and sidewalls of the Tibial Tray component.

CAUTION: *If using the INBONE Tibial Tray implant, remove the Holding Tool before striking the Strike Rod. Otherwise it can be locked in place. The Holding Tool does not need to be removed if using the INVISION Tibial Tray.*

Holding the Tibial Stem Base firmly, strike the end of the Strike Rod several times with a mallet to seat the Morse Taper.

CAUTION: *The Tibial Tray will not seat if the wrench is in the wrong orientation. Wrench is marked "Distal" for correct orientation.*

Remove the Wrench, rethread the Holding Tool to the Tibial Tray, and test the Morse Taper connection by trying to rotate the Tibial Tray against the Stem. If properly engaged, both the stem and Tibial Tray should move as one unit.

CAUTION: *Be sure not to get any cement on the anterior face or bottom of Tibial Tray, as this may prevent poly from fully seating.*

Seat the assembly firmly into the tibia using a mallet and the Strike Rod. Remove the Strike Rod and visually check the anterior alignment. Check a lateral fluoroscopic image for proper posterior seating. **FIGURE 47**

Should the Tibial Tray need to be removed for any reason from the base stem, refer to Appendix A for removal.

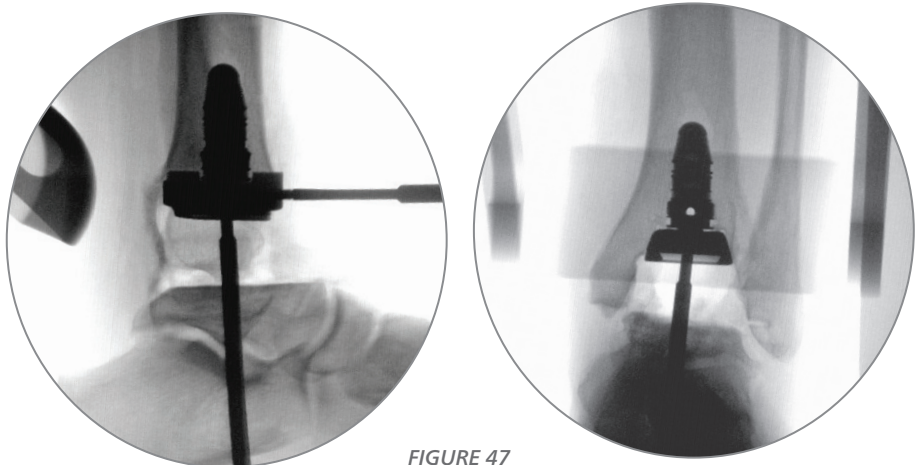


FIGURE 47

Implanting Talar Components

Assemble Talar Plate Seating Block (60006033) by inserting five of the PEEK Inserts (60006034) in the appropriate locations. Place the Talar Dome implant onto the Morse taper of the Talar Plate implant and ensure that the Talar Dome is oriented correctly. There is an arrow and an "A" on the right side of implant indicating which direction should face anteriorly.

Next place the Talar Component Assembly into the Talar Plate Seating Block. Align the Dome Strike Tool (IB200030 and IB200031) on the Talar Dome and with a mallet, hit the top of the strike tool 2-3 times to fully seat the Talar Dome to the Talar Plate. **FIGURE 48**

Place the blue Tray Insert (200419002 - 6) in the Tibial Tray to prevent scratching the articulating surface of Talar Dome.

Apply cement to the under surface of Talar Plate. Do not place cement on pegs as they are designed to be press fit into the prepared peg holes. Introduce Talar Dome/Plate component by hand, aligning the pegs with the prepared holes. Remove the Tray Insert and with Dome Strike Tool, impact the talar component in line with the oblique pegs until the plate is flush with the resected bone. **FIGURE 48**

Take a lateral fluoroscopic image to ensure Talar Plate is fully seated.

Should the Talar Dome need to be removed from the Talar plate for any reason, refer to Appendix A for removal.

CAUTION: Due to Morse Taper connection, you will see a slight gap between Talar Dome and Talar Plate.



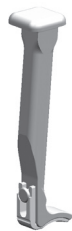
Talar Plate Seating Block
60006033



PEEK Insert
60006034



Tray Insert
200419002 - 6



Dome Strike Tool
(pre-assembled with Dome Strike Tip)
IB200030 and IB200031



FIGURE 48

Poly Insertion

Select the appropriate size Poly Inserter Rail (60006002-5) and attach it to the Poly Insertion Tool (60006018). The Poly Inserter Rail should snap into position on the ball plungers of the Poly Insertion Tool. Ensure that the numbers are aligned and the arrows are oriented in the same direction between the two components. **FIGURE 49**

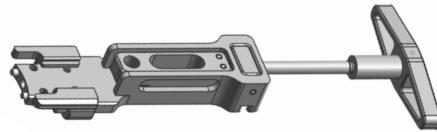
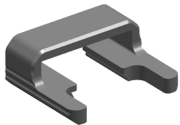


FIGURE 49

Select the appropriate size Polyethylene Insert and slide it into the dovetail Poly Inserter Rails. The anterior surface of the Polyethylene Insert should face the geared plunger.



Poly Inserter Rail
60006002-5



Poly Insertion Tool
60006018



Attachment Rod
60006021



Attachment Nut
200329201

Thread the Attachment Rod (60006021) into the anterior face of the Tibial Tray. **FIGURE 50A** Slide the Poly Insertion Tool with Poly Insert assembled over the Attachment Rod and align flush with the anterior surface of the Tibial Tray. Thread the Attachment Nut (200329201) on the Attachment Rod to lock the Poly Insertion Tool to the Tibial Tray. **FIGURE 50B**

Turn the geared handle of the Poly Inserter to drive the Polyethylene Insert into the Tibial Tray. **FIGURE 50C**

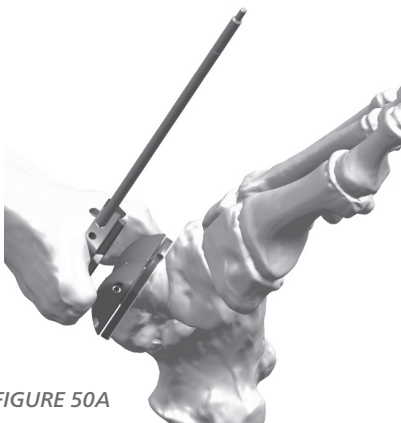


FIGURE 50A

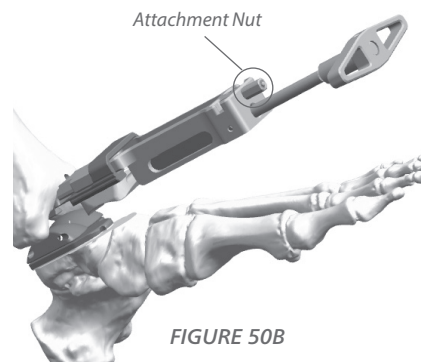


FIGURE 50B

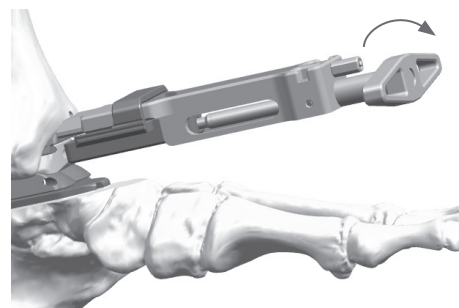


FIGURE 50C

Continue to advance the Polyethylene Implant until the locking tab engages the tibial tray, making certain not to lever on the previously implanted tibial tray. Visually check to ensure Polyethylene seating. If required, select the Poly Impact Tool (200286) and give the Polyethylene a final tap to seat the insert. **FIGURE 51**

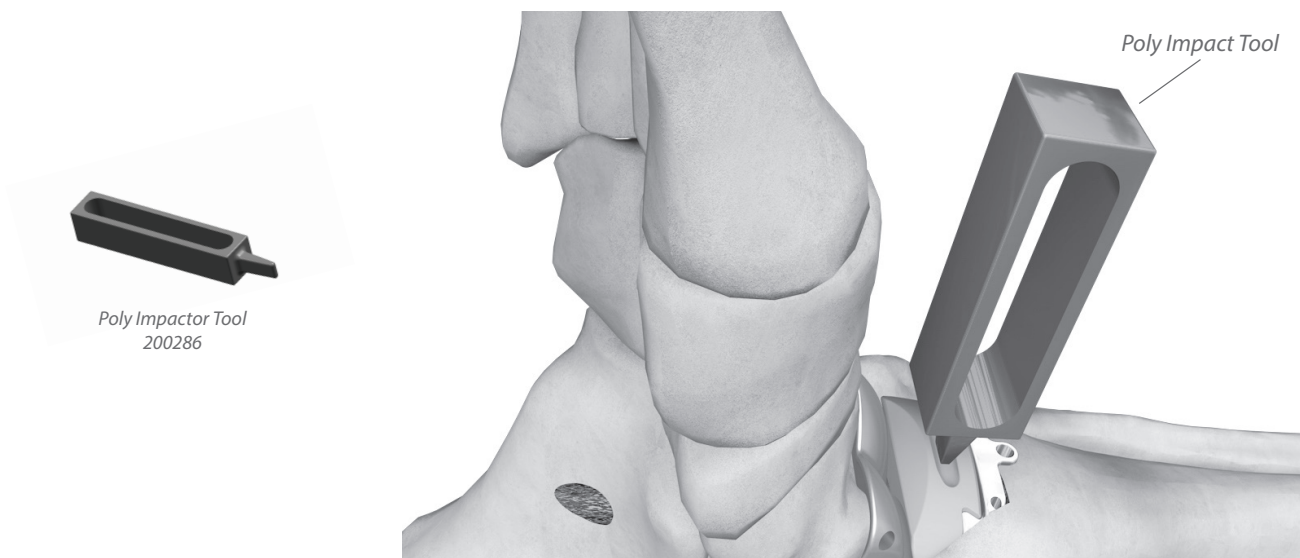
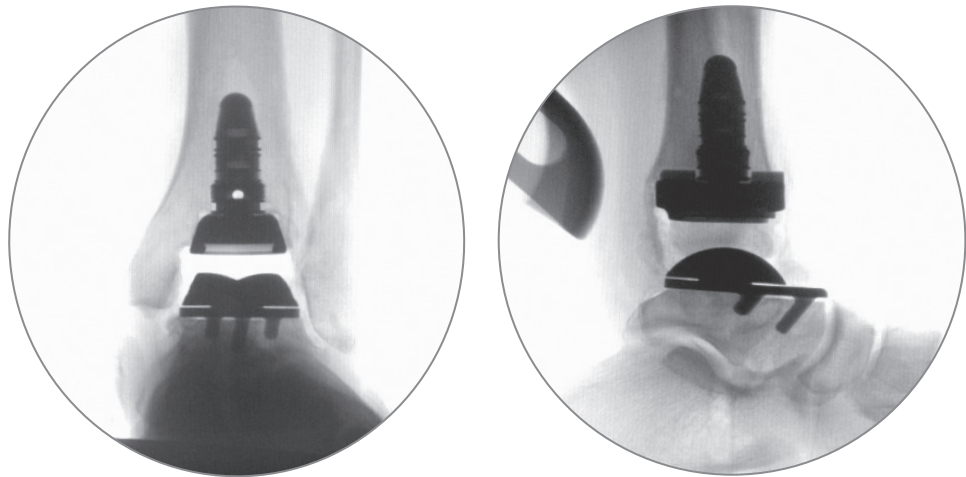


FIGURE 51

Take final AP and Lateral Fluoro images. **FIGURE 52**



FIGURE 52



Explant Information

If the removal of the implant is required due to revision or failure of the device, the surgeon should contact the manufacturer using the contact information located on the back cover of this surgical technique to receive instructions for returning the explanted device to the manufacturer for investigation.

INSERT REPLACEMENT

To remove the Poly Insert, first install two large diameter threaded Steinmann Pins into the anterior face of the implant. With a pair of pliers, pull distally on the Steinmann Pins in attempt to unlock the Insert from the Tibial Tray. A narrow osteotome may be inserted into the anterior region of the insert to facilitate removal. A hemostat may be used to remove the insert once it is no longer locked to the tibial base. Care must be taken not to scratch or mar any component that is not intended to be removed.

TIBIA AND TALAR COMPONENTS

To remove the components, small osteotomes, power saws, or other surgical instruments may be used to disrupt the bone-cement interface. Care must be exhibited to save remaining bone stock as well as to prevent fracture. Once the components have been removed, rongeurs or small osteotomes, as well as other surgical instruments, may be used to remove the remaining cement.

Postoperative Management

Postoperative care is the responsibility of the medical professional.

Morse Taper Release

Thread Morse Taper Release Pin (200356003) into Morse Taper Release Handle (200355).

Insert tip of the Morse Taper Release Pin into the Morse Taper Release Hole of the implant.

Angled surface of the Release Pin should face distally.

Holding the implant firmly, strike the end of the Morse Taper Release Handle with a mallet until the Morse Taper becomes unseated. **FIGURE 53**

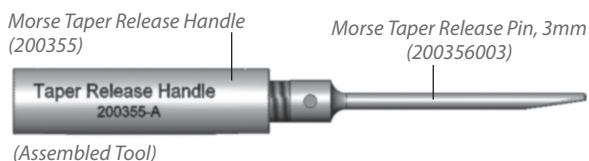
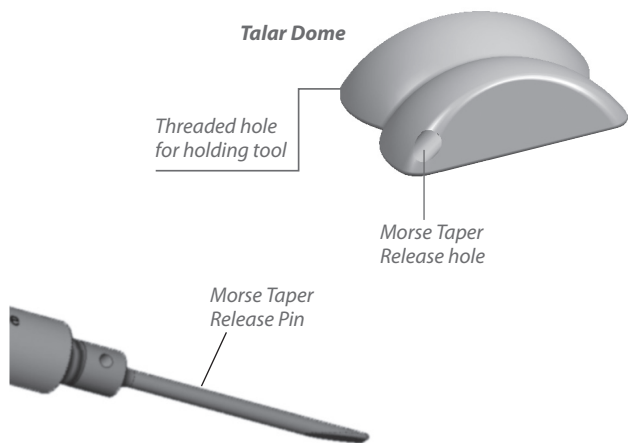
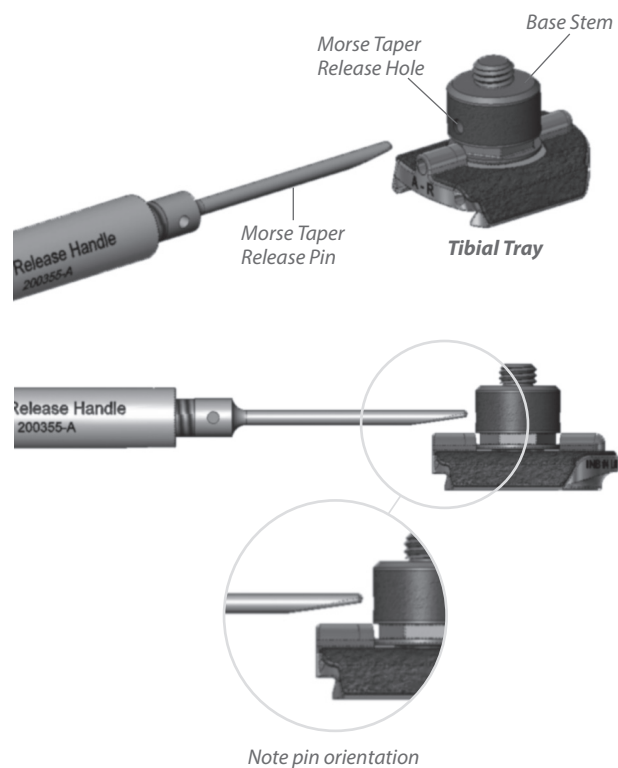


FIGURE 53

Talar Dome



Tibial Tray



CAUTION: Release pin must be inserted into the Talar Dome from anterior to posterior to disengage taper. Failure to do so could result in pin becoming permanently jammed.

Intraoperative Tibia Stem Guide Fluoroscopic Check Assembly

The M4 Holding Tool (purple) **FIGURE 54** or the Strike Rod **FIGURE 55** can be used in the proximal hole of the tibia stem alignment guide as an extramedullary alignment rod, or as a fluoro check indicator. The M4 tool is shorter, whereas the Strike Rod may interfere with the proximal tibia tubercle. Compare the intra-op fluoro image to the image of the tibia stem guide in the patient's pre-op alignment report.

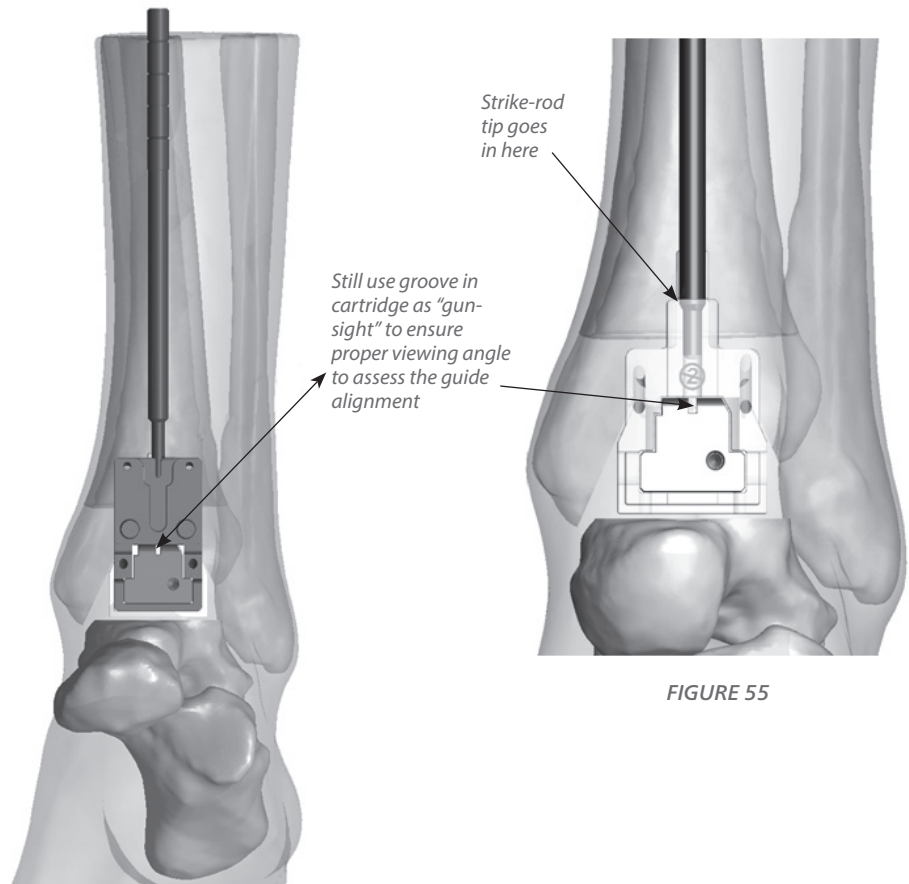


FIGURE 54

FIGURE 55

Stem Retrieval

Retrieving a Base Stem Piece from the Tibia

Insert the T-Handle Reamer (200395) through the bottom of the foot and thread the Base Stem Extraction Tool (200428) in the open joint space.

FIGURE 56 A size 14 Clip (200381001-200381004) is used to introduce the Base Stem Extraction Tool. Once it is threaded onto the Reamer replace the Clip with a size 14 Wrench (200380001-200380004) to tighten. **FIGURE 57**

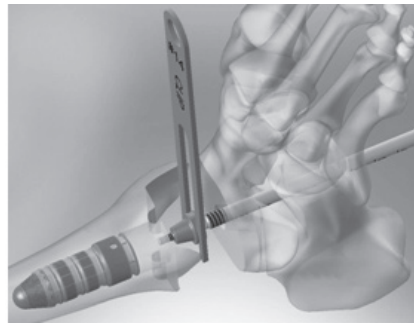


FIGURE 56

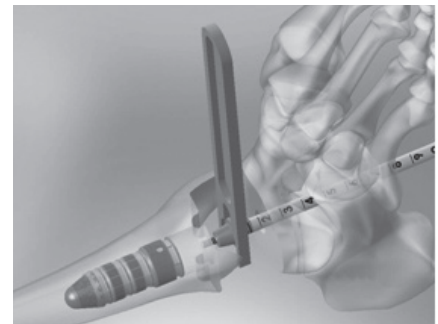


FIGURE 57

Select these tools:



Tibial T-Handle Reamer
Drive Rod
200395



Base Stem Extraction Tool
200428



Tibial Stem Clip #14
200381001 - 200381004



Tibial Stem Wrench #14
200380001 - 200380004

Remove the Wrench and push the Extraction Tool up in the tibia until contact is made with the Base Stem Piece. Continue to turn the T-Handle clockwise to engage the threads of the Base Stem Piece. **FIGURE 58** Once threads are engaged, pull out the stem construct until the base stem is visible in the joint space. **FIGURE 59**

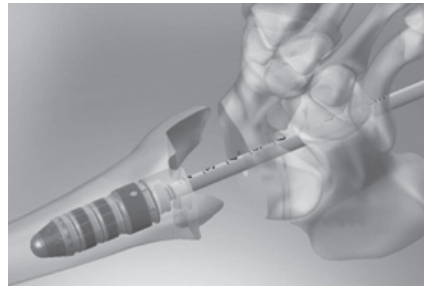


FIGURE 58

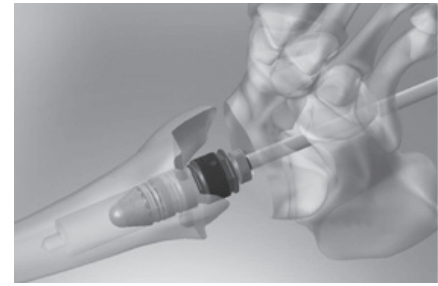


FIGURE 59

Place the appropriate size Wrench on the Base Stem and turn the T-Handle counter-clockwise to disengage the Extraction Tool from the Base Stem. Leaving the Wrench on the Base Stem push the stem construct back into the tibia.

FIGURE 60 Use the size 14 Wrench to remove the Extraction Tool from the T-Handle Reamer. **FIGURE 61**

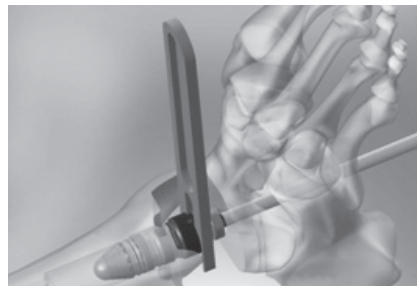


FIGURE 60

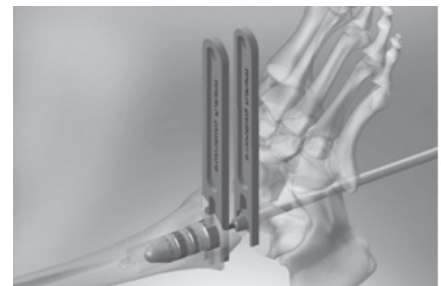


FIGURE 61

Retrieving a Mid or Top Stem Piece from the Tibia

Follow the exact steps detailed on previous page for removing the Base Stem piece, substituting the Mid/Top Stem Extraction Tool (200102) for the Base Stem Extraction Tool (200428). **FIGURES 62-67**



FIGURE 62



FIGURE 63

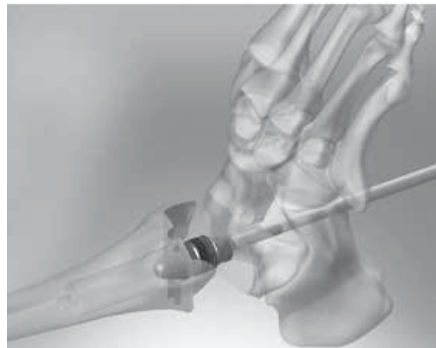


FIGURE 64

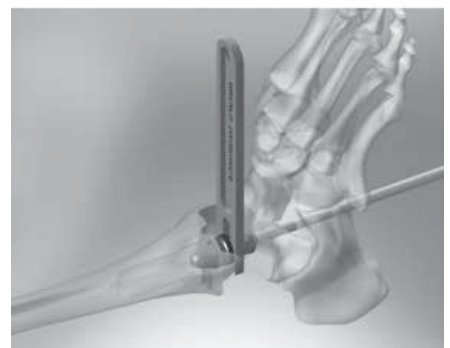


FIGURE 65



Mid/Top Stem Extraction Tool 200102



Base Stem Extraction Tool 200428

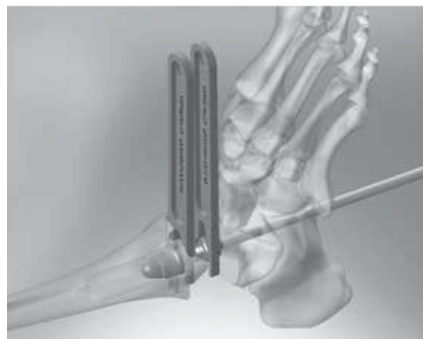


FIGURE 66



FIGURE 67

Talus-First or Talus-Only Revision

NOTE: A talus-first or talus-only revision is preoperatively planned only if the existing tibia implant being revised is an INFINITY, INBONE, or INVISION implant in which the existing tibia may not be revised, OR if the existing implant type and/or anatomy lends itself to resecting the talus bone first. Refer to the patient's preoperative alignment report for information related to the expected order of operations.

Setting the Talus Alignment and Resection

If the case is pre-operatively planned with the option of revising the tibia component after the talus resection, it is important that the tibia alignment guide is placed first. Perform the steps for the tibia alignment (detailed on pages 8-10 above). Place the tibia guide, place 1 pin into bone, fluoro check the guide, finish drilling the other tibia guide holes. Remove tibia guide. Remove poly. Remove talus implant.

Make certain that the previous poly implant and previous talar implant are removed from the space prior to beginning the talus-first or talus-only revision. In order to re-create the preoperatively planned deformity correction, patient-specific Spacers (PROPINV) are provided. One spacer references the tibia bone and existing tibia implant, and the talus spacer references the proximal talus. **FIGURE 68** These spacers fill the joint space between the tibia and talus in order to allow the talus to be positioned relative to the tibia.

The talar spacer will be provided but is optional if the correction of the talus is minimal. In this instance you may utilize the Spacer Shims to provide necessary correction. If the joint space has laxity, you may use the Talus Spacer in conjunction with the Spacer Shims to stabilize the joint space and achieve correction of the talus.

The spacers help set the varus/valgus and flexion/extension relationship between the tibia and talus intraoperatively. The resection depth for the talus is set manually with the procedure below.

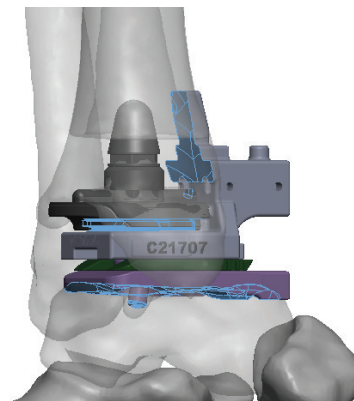
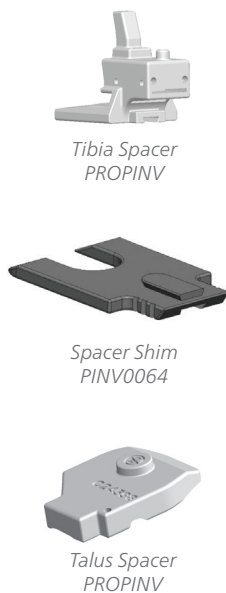
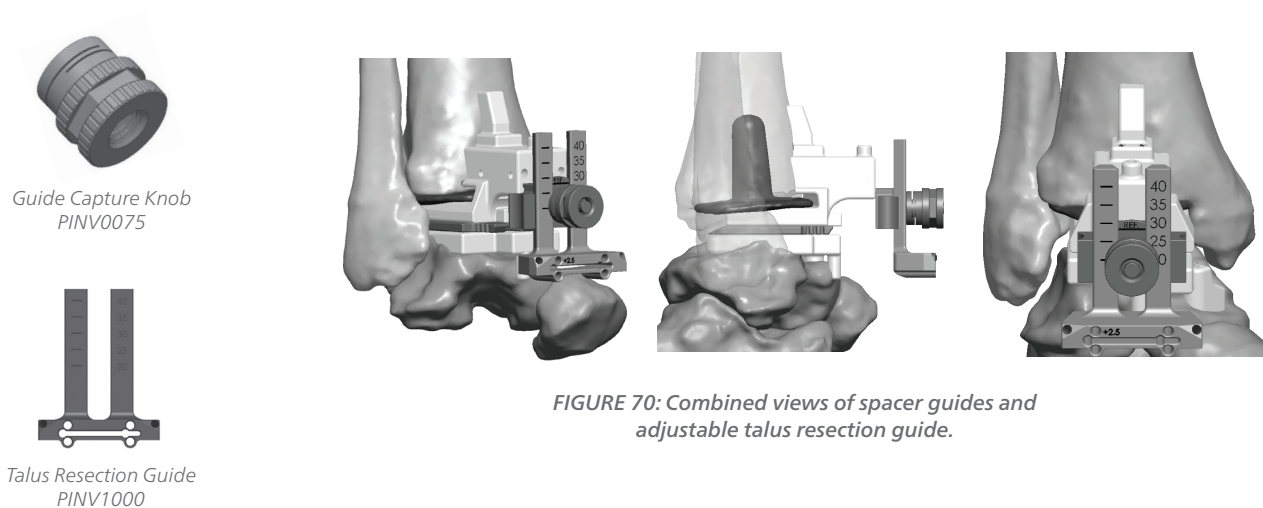
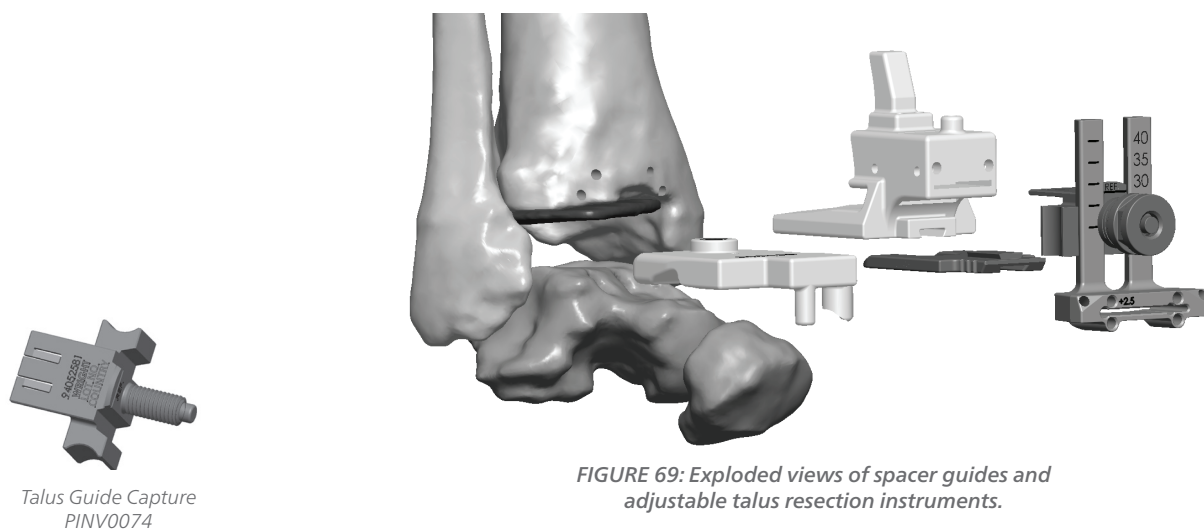


FIGURE 68

FIGURE 68 Talus-first spacer guide configuration showing existing tibia implant, tibia spacer, spacer shim (PINV0064), and talus spacer (PROPINV).

The patient-specific talus spacer is placed into the space. A pin may be placed through the talus spacer into the talus for stability. The patient-specific tibia spacer is inserted into the joint. This instrument interacts with the distal surface of the existing Tibial Tray. If gross laxity between the tibia and talus is observed, shims (PINV0064) may be added between the tibia and talus spacer to provide stability and drive the angular correction of the deformity as determined preoperatively. Each shim has a thickness of 3 mm. The shims interact with other shims and with the tibia spacer dovetail connections. The talus spacer does not interact with the dovetail connection; instead, there is a cylindrical boss protruding from the talus spacer that interacts with the U-shaped feature of either the shims or the tibia spacer, depending upon what is inserted into the space. This cylindrical feature provides some medial-lateral constraint while allowing for internal/external rotational flexibility and some A-P translation.

The adjustable Talus Guide Capture (PINV0074) is assembled into the anterior slot of the patient-specific tibia spacer guide (PROPINV) with the Guide Capture Knob (PINV0075) locking the adjustable Talus Resection Guide (PINV1000). **FIGURES 69 -71**



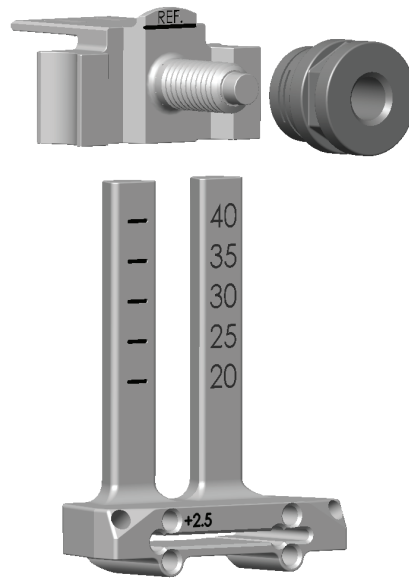


FIGURE 71: Talus Guide Capture (PINV0074)
Guide Capture Knob (PINV0075)

Before pinning, the surgeon should hold the foot at neutral (90°) flexion and neutral hindfoot varus/valgus orientation. The talus resection slot position is adjusted proximal and distal. A lateral fluoro image can facilitate visualization of the resection depth. K-wires or the saw blade may be inserted at the level of the talus resection to visualize the resection and to determine the appropriate resection level intraoperatively. The resection depth and talus orientation is determined by the surgeon and is not set by the PROPHECY system. **FIGURE 72**



FIGURE 72

Markings on the Talus Resection Guide (PINV1000) indicate the distance of the talus resection from the tibia resection. There is a small "Ref." line on the Talus Guide Capture (PINV0074) for referencing the resection depth.

The surgeon will need to refer to the implant thicknesses in order to consider which thickness of implant may be appropriate for the overall resection height.

With the talus resection guide at the desired resection level pins are placed through the anterior holes. A pin should be placed in a hole on both the medial and lateral side. Use caution when driving pins through the talus resection guide to avoid pinning into the spacer guides or shims as this could cause damage or make spacer guide removal difficult. After placing at least two pins the entire construct is removed except the pins from the talus resection guide. The talus resection guide is slid back over the pins by itself. The reason for removing the entire construct is twofold:

- 1) To prevent resecting into the spacer instruments
- 2) To allow the talus resection guide to be positioned as close to the talus as possible.

If for any reason the talus resection depth needs to be adjusted there are additional holes in the resection guide that allow adjustment of the resection depth by 2.5 mm both proximal and distal to the cut slot.

Pins may be placed in both the medial and lateral oblique holes of the talus resection guide. **FIGURE 73** The parallel talus K-wires may be trimmed, or removed, to prevent interference with the saw. The oblique K-wires may be left long enough that they can be removed after completing the talus resection.

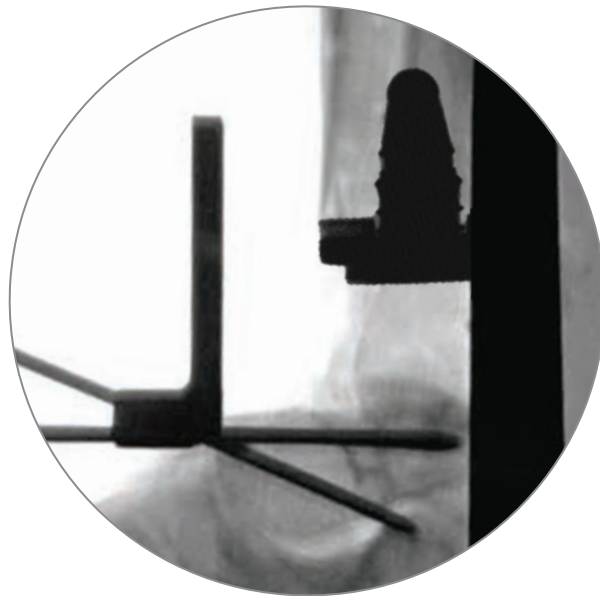


FIGURE 73: Talus Resection guide with converging oblique K-wires placed into the talar body.

The talus is resected, the pins are removed, and the space is cleared of all resected bone down to the level of the flat cut.

Note: If the tibia implant also needs to be revised after completing the talus resection, return to the steps above (page 10) of removing the existing tibia implant, re-inserting pins into the tibia, and setting the tibia resection guide.

Trial Reduction

Using the Poly insert Trial Holding Tool (IB200110) install the appropriate size Poly Insert Trial into the Tibial Tray. The locking tab of the Poly Insert Trial should engage the Tibial Tray.

To attach the Holding Tool to the corresponding trial component, insert the tip of the tool into the keyed slot and turn 90° counter-clockwise to lock the connection. **FIGURE 74**

To remove the holding tool turn the handle 90° clockwise and remove.

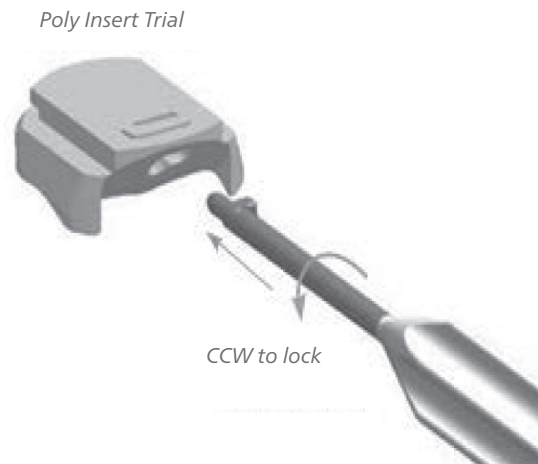


FIGURE 74

Introduce the appropriate size Talar Dome (IB220901-905) and Talar Plate Trial (60001010 - 1150). The Talar Plate Implant size may be equivalent to the Tibial Tray Implant size, one size larger than the Tibial Tray, or one size smaller. For example, a Size 3 Tibial Tray may utilize a Size 2, 3, or Size 4 Talar Plate. The Talar Dome Implant could be equivalent to the size of the Tibial Tray or one size smaller. If additional thickness is required to rebuild the anatomical joint line, utilize the 3mm Trial Talar Plate Spacer (60003001) to assess height of required Talar Plate.

While the final polyethylene thickness does not have to be definitively chosen during the trial phase, it is important to have what is perceived to be the appropriate size Poly Insert Trial to accurately determine the placement of the talar component. The Poly Insert Trial used for the reduction should fit appropriately to determine the center of rotation of the talar component; therefore, trialing multiple sizes may be necessary. Note that after insertion of the talar plate and talar dome implants, the height of the poly can be reassessed.

In order to determine proper polyethylene height the following factors should be considered:

- Smooth range of motion of the ankle without anterior or posterior impingement.
- Ligaments are tensioned both medially and laterally without over-tensioning. Over-tensioning is noted when the trial talar component tilts following trial poly insertion. Alternatively, with range of motion, the talar component becomes incongruent with the trial poly, which can identify too much tension on the ankle replacement.
- Stress the ankle joint into varus and valgus. The trial components should not tilt.
- The trial poly should engage the sulcus in the talar dome trial without allowing medial/lateral translation.

Under lateral plane fluoroscopy ensure the posterior portion of the Talar Plate and Talar Dome Trial components are resting on the posterior portion of the patient's residual talus (establish congruence). Two length options are available for INVISION Talar Plates (standard and long). These options are available to ensure best possible coverage of talar resection. **FIGURE 75**

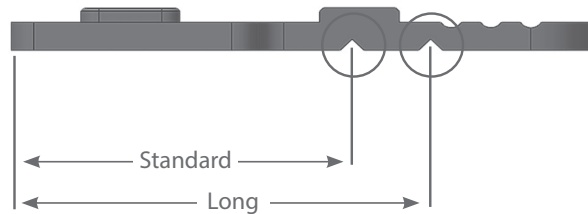
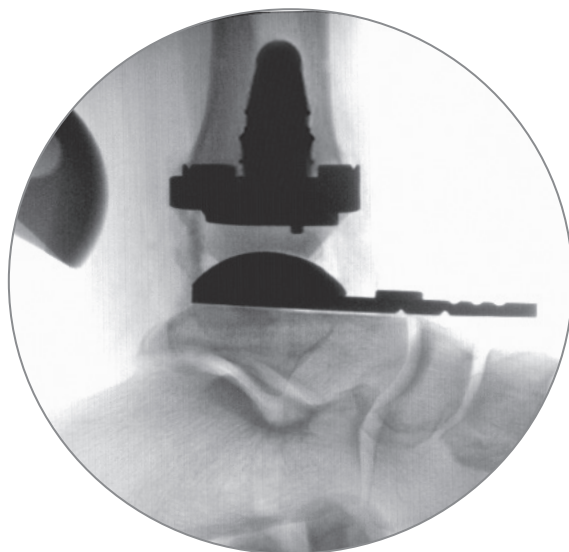


FIGURE 75



To accurately perform the range of motion, place some axial compression on the components to maintain position, and flex and extend the ankle. The surgeon will observe the talar component rotating into the anatomic position for this particular patient. Note that the surgeon must not only be cognizant of the talar position in the lateral plane, but must simultaneously maintain medial/lateral coverage as evidenced by the previous A/P plane fluoroscopic views.

Once the Talar Dome Trial and Talar Plate Trial have settled into optimum anatomical position, install two 2.4mm Steinmann Pins through the Talar Plate Trial into the calcaneus for additional stability and to temporarily hold it in place. **FIGURE 76**

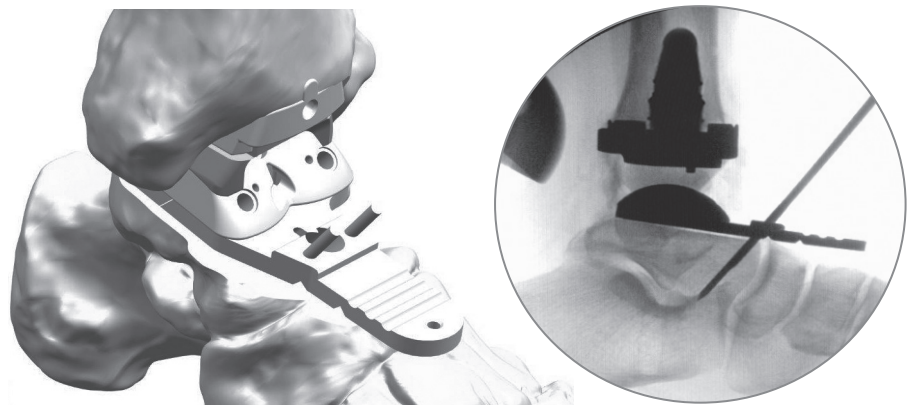


FIGURE 76

CAUTION: Place pins by hand and ensure that pins do not cold weld while driving in via power.

NOTE: With the talar component pinned in position, the surgeon should once again place the ankle through a range of motion to ensure tibio-talar articular congruence. Also, confirm through lateral fluoroscopy that the prosthesis did not shift anteriorly.

Cut the pins approximately 1.5" long and remove all trials except for the Talar Plate Trial from the joint space.

Talar Preparation

Clip the Anterior Peg Drill Guide (60006011) and Peg Drill Handle (60006012) together, ensure that the Talar Plate Trial is flush to talus and slide Peg Drill Guide into Anterior Peg Hole. **FIGURE 77A** With the Peg Drill (60006022), drill for your anterior peg. Use the Posterior Peg Drill Guide (60006027) for the posterior holes. Follow same steps listed above to prep for medial and lateral posterior pegs. **FIGURE 77B** Once both posterior pegs are prepped, remove Talar Plate Trial and 2.4 pins.

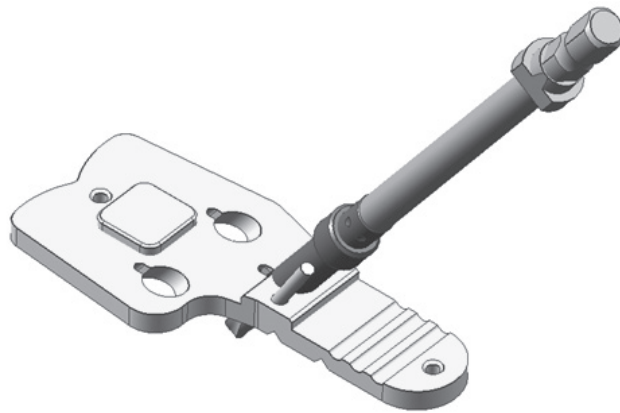


FIGURE 77A

**Handle not shown*

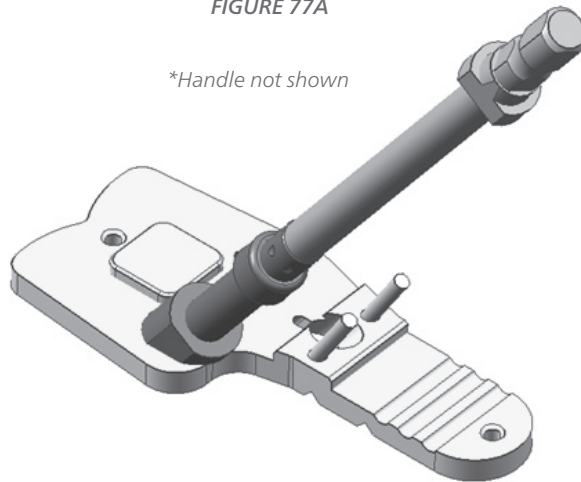


FIGURE 77B

Implanting Talar Components

Assemble Talar Plate Seating Block (60006033) by inserting five of the PEEK Inserts (60006034) in the appropriate locations. Place the Talar Dome implant onto the Morse taper of the Talar Plate implant and ensure that the Talar Dome is oriented correctly. There is an arrow and an "A" on the right side of implant indicating which direction should face anteriorly.

Next place the Talar Component Assembly into the Talar Plate Seating Block. Align the Dome Strike Tool (IB200030 and IB200031) on the Talar Dome and with a mallet, hit the top of the strike tool 2-3 times to fully seat the Talar Dome to the Talar Plate. **FIGURE 78**

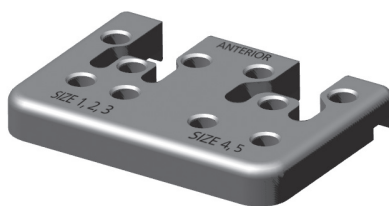
Place the blue Tray Insert (200419002 - 6) in the Tibial Tray to prevent scratching the articulating surface of Talar Dome.

Apply cement to the under surface of Talar Plate. Do not place cement on pegs as they are designed to be press fit into the prepared peg holes. Introduce Talar Dome/Plate component by hand, aligning the pegs with the prepared holes. Remove the Tray Insert and with Dome Strike Tool, impact the talar component in line with the oblique pegs until the plate is flush with the resected bone. **FIGURE 78**

Take a lateral fluoroscopic image to ensure Talar Plate is fully seated.

Should the Talar Dome need to be removed from the Talar plate for any reason, refer to Appendix A for removal.

CAUTION: Due to Morse Taper connection, you will see a slight gap between Talar Dome and Talar Plate.



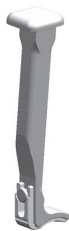
Talar Plate Seating Block
60006033



PEEK Insert
60006034



Tray Insert
200419002 - 6



Dome Strike Tool
(pre-assembled with Dome Strike Tip)
IB200030 and IB200031



FIGURE 78

Poly Insertion

Select the appropriate size Poly Inserter Rail (60006002-5) and attach it to the Poly Insertion Tool (60006018). The Poly Inserter Rail should snap into position on the ball plungers of the Poly Insertion Tool. Ensure that the numbers are aligned and the arrows are oriented in the same direction between the two components. **FIGURE 79**

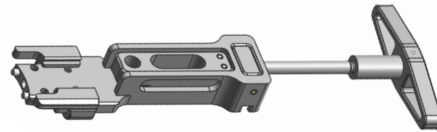
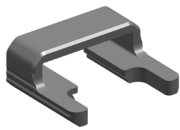


FIGURE 79

Select the appropriate size Polyethylene Insert and slide it into the dovetail Poly Inserter Rails. The anterior surface of the Polyethylene Insert should face the geared plunger.

Thread the Attachment Rod (60006021) into the anterior face of the Tibial Tray. **FIGURE 80A** Slide the Poly Insertion Tool with Poly Insert assembled over the Attachment Rod and align flush with the anterior surface of the Tibial Tray. Thread the Attachment Nut (200329201) on the Attachment Rod to lock the Poly Insertion Tool to the Tibial Tray. **FIGURE 80B**

Turn the geared handle of the Poly Inserter to drive the Polyethylene Insert into the Tibial Tray. **FIGURE 81C**



Poly Inserter Rail
60006002-5



Poly Insertion Tool
60006018



Attachment Rod
60006021



Attachment Nut
200329201

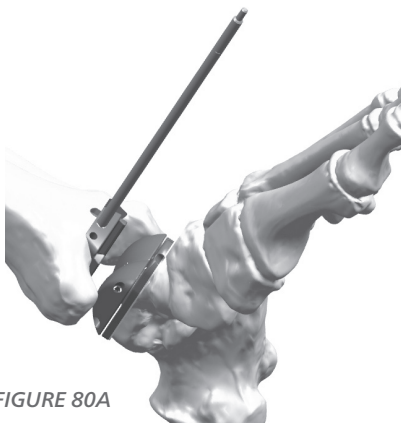


FIGURE 80A

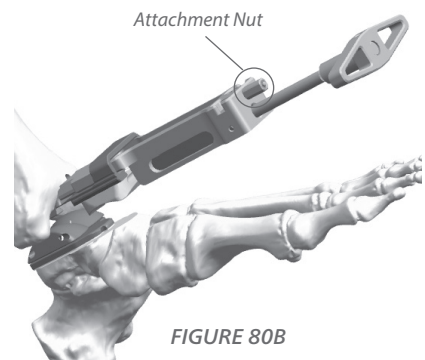


FIGURE 80B

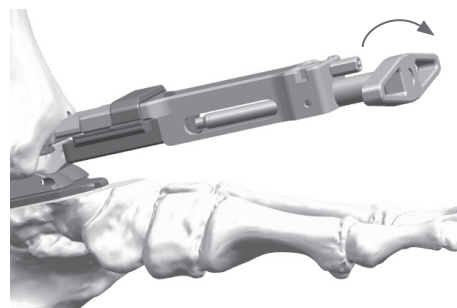


FIGURE 80C

Continue to advance the Polyethylene Implant until the locking tab engages the tibial tray. Visually check to ensure Polyethylene seating. If required, select the Poly Impact Tool (200286) and give the Polyethylene a final tap to seat the insert. **FIGURE 81**

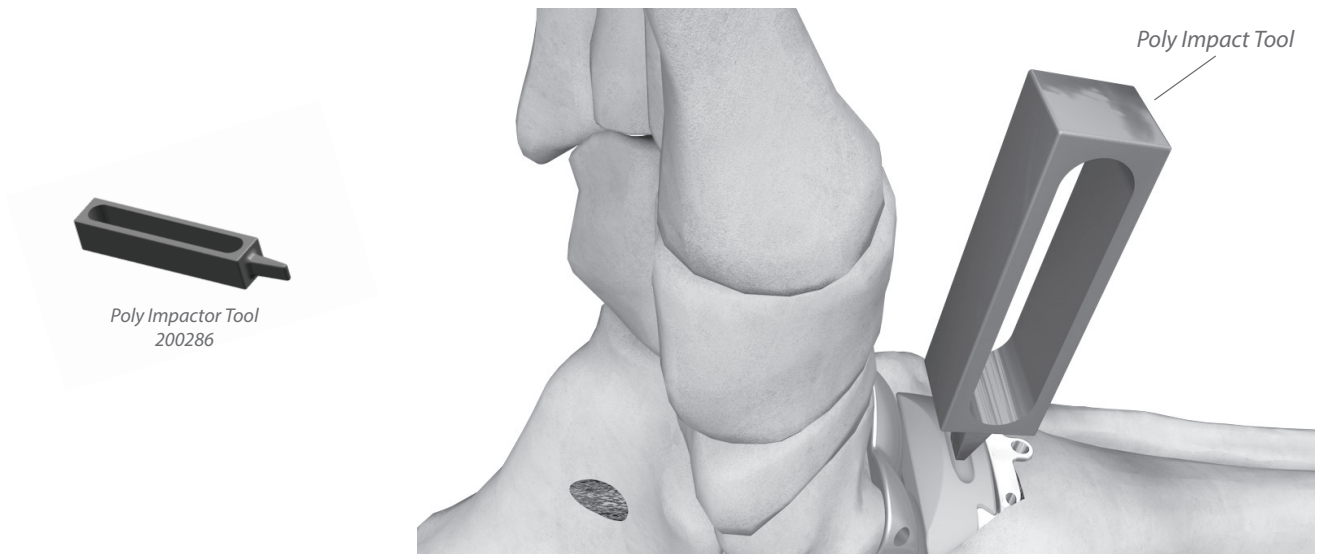
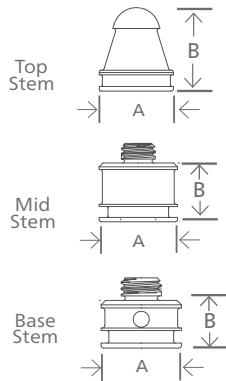


FIGURE 81

Implant Specifications

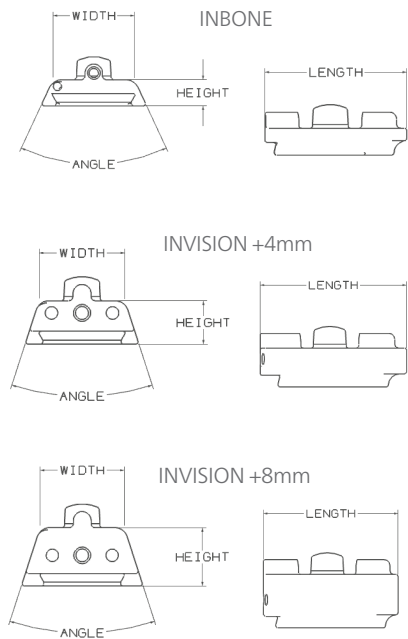
NOTE: All dimensions are shown in millimeters and have been approximated to the nearest half millimeter.



Stems

Implant	Size 12mm		Size 14mm		Size 16mm		Size 18mm	
	A	B	A	B	A	B	A	B
Top Stem	12	18	14	18	16	18	N/A	N/A
Mid Stem	12	9.5	14	9.5	16	9.5	18	13.5
Base Stem	N/A	N/A	N/A	N/A	16	9.5	18	13.5

Tibial Trays



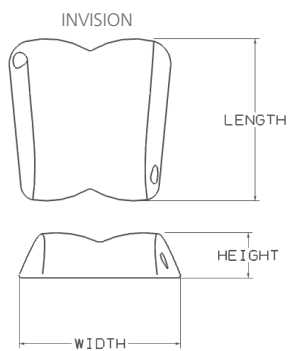
Size	Implant	Type	Height	Width	Angle	Length
Size 2	INBONE	Standard	7	21	50	32
		Long	10			33
	INVISION +4mm	Standard			33	
		Long				36
	INVISION +8mm	Standard			14	30
		Long	33			

Size	Implant	Type	Height	Width	Angle	Length
Size 4	INBONE	Standard	8	24.5	50	39
		Long	11.5			39
	INVISION +4mm	Standard			39	
		Long				43
	INVISION +8mm	Standard			15.5	37
		Long	40			

Size	Implant	Type	Height	Width	Angle	Length
Size 3	INBONE	Standard	7.5	23	50	36
		Long	11			36
	INVISION +4mm	Standard			36	
		Long				40
	INVISION +8mm	Standard			15	34
		Long	37			

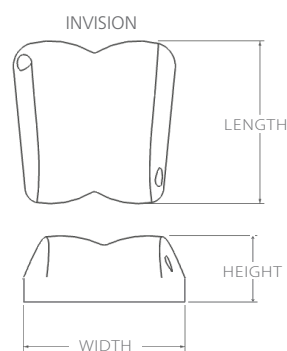
Size	Implant	Type	Height	Width	Angle	Length
Size 5	INBONE	Standard	9	26	50	42
		Long	12			41
	INVISION +4mm	Standard			41	
		Long				46.5
	INVISION +8mm	Standard			16	40.5
		Long	43.5			

Size	Implant	Type	Height	Width	Angle	Length
Size 6	INBONE	Standard	9.5	29	50	46



Standard Talar Domes

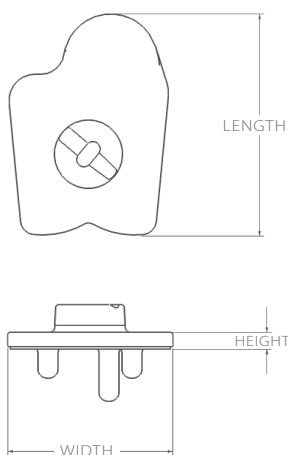
Implant	Width	Length	Height
Size 1	30	31.5	10
Size 2	33	34	10
Size 3	36	36	10
Size 4	39	39	11
Size 5	42	42	12



+3mm Talar Domes

Implant	Width	Length	Height
Size 1	30	31.5	13
Size 2	33	34	13
Size 3	36	36	13
Size 4	39	39	14
Size 5	42	42	15

Talar Plates



Size	Thickness	Type	Width	Length	Height
Size 1	Standard	Standard	30	43.5	3mm
		Long		53.5	

Size	Thickness	Type	Width	Length	Height
Size 2	Standard	Standard	32	46.5	3mm
		Long		56.5	

Size	Thickness	Type	Width	Length	Height
Size 3	Standard	Standard	35	48.5	3mm
		Long		58.5	

Size	Thickness	Type	Width	Length	Height
Size 4	Standard	Standard	38.5	52	3mm
		Long		62	

Size	Thickness	Type	Width	Length	Height
Size 5	Standard	Standard	41.5	55	3mm
		Long		65	

Implant Compatibility

INVISION or INBONE Tibia with INVISION Talus

Top Stem	Mid Stem	Base Stem	Tibial Tray	Poly Insert	Dome	Talar Plate
12mm 14mm 16mm	12mm 14mm 16mm	16mm	2	1+	1	1
				2	2	2 3
12mm 14mm 16mm	12mm 14mm 16mm	16mm	3	2+	2	2
				3	3	3 4
12mm 14mm 16mm	12mm 14mm 16mm 18mm	18mm	4	3+	3	3
				4	4	4 5
12mm 14mm 16mm	12mm 14mm 16mm 18mm	18mm	5	4+	4	4
				5	5	5

INVISION Tibia with INBONE Talus

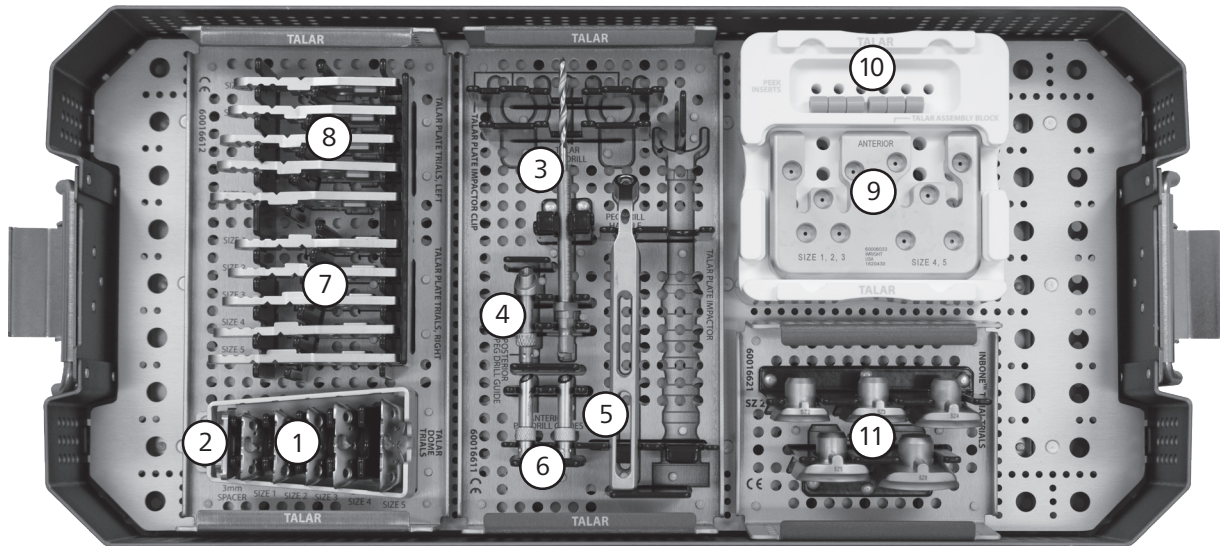
Top Stem	Mid Stem	Base Stem	Tibial Tray	Poly Insert	Dome	Talar Stem
12mm 14mm 16mm	12mm 14mm 16mm	16mm	2	1+	1	10mm 14mm
				2	2	
12mm 14mm 16mm	12mm 14mm 16mm	16mm	3	2+	2	10mm 14mm
				3	3	
12mm 14mm 16mm	12mm 14mm 16mm 18mm	18mm	4	3+	3	10mm 14mm
				4	4	
12mm 14mm 16mm	12mm 14mm 16mm 18mm	18mm	5	4+	4	10mm 14mm
				5	5	

INFINITY Tibia with INVISION Talus

Tibial Tray	Poly Insert	Dome	Talar Plate
1 2	1+	1	1
	2	2	2 3
3	2+	2	2
	3	3	3 4
4	3+	3	3
	4	4	4 5
5	4+	4	4
	5	5	5

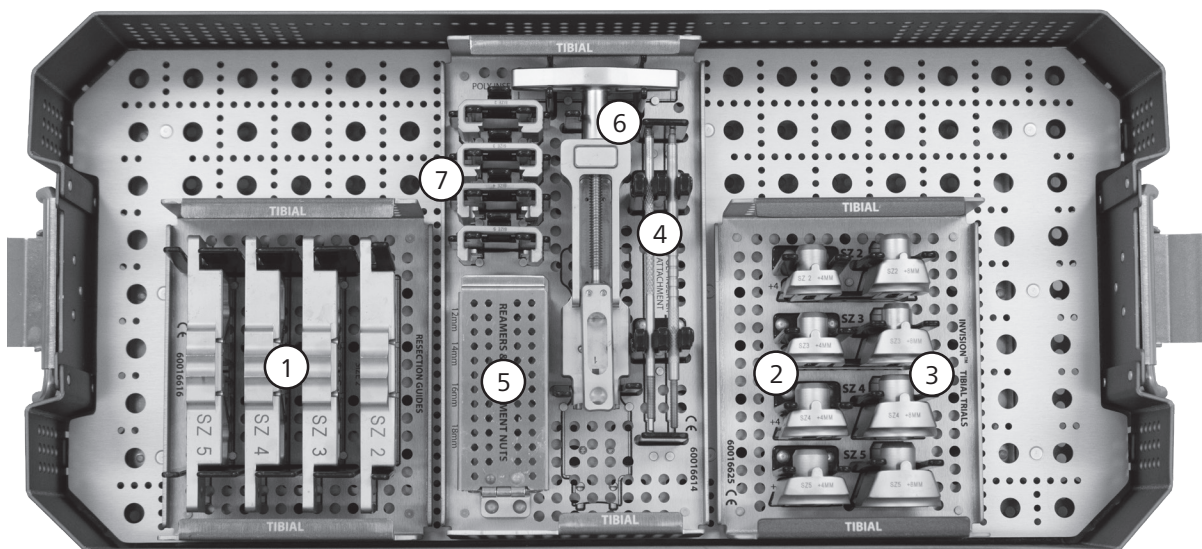
Ordering Information

IVTPKIT1 — INVISION



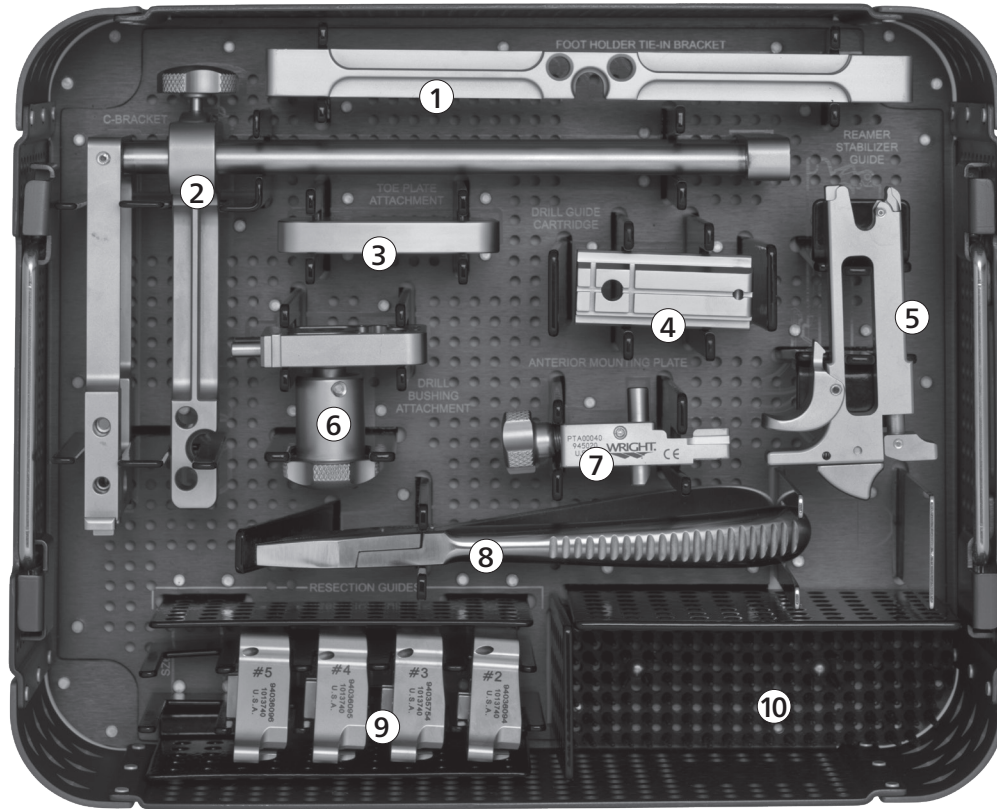
- | | |
|--|---|
| 1. INBONE Dome Trial Sizes 1-5 (IB220801-IB220805) | 7. INVISION Talar Plate Trial Sizes 1-5 Right (60001110 - 60001150) |
| 2. Talar Trial Plate Spacer 3mm (60003001) | 8. INVISION Talar Plate Trial Sizes 1-5 Left (60001010 - 60001050) |
| 3. INVISION Peg Drill (60006022) | 9. INVISION Talar Assembly Block (60006033) |
| 4. INVISION Posterior Peg Drill Guide (60006027) | 10. INVISION Talar Assembly PEEK Insert (60006034) |
| 5. INVISION Peg Drill Handle (60006012) | 11. INBONE Tibial Trial Sizes 2-6 (IB600020 - IB600060) |
| 6. INVISION Anterior Peg Drill Guide (60006011) | |

IVTTKIT1 — INVISION



- | | |
|--|--|
| 1. INVISION Resection Guide Sizes 2-5 (60002000 - 60005000) | 4. Attachment Screw (60006021) |
| 2. INVISION Tibial Tray Trial Sizes 2-5 +4mm (60002400 - 60005400) | 5. Attachment Screw Nut (200329201) |
| 3. INVISION Tibial Tray Trial Sizes 2-5 +8mm (60002800 - 60005800) | Sharp Tibial Reamers (22001200 - 22001800) |
| | 6. INVISION Threaded Poly Inserter (60006018) |
| | 7. INVISION Poly Inserter Rail Sizes 2-5 (60006002 - 60006005) |

PTAKIT1 — PROPHECY INBONE Instrument Kit

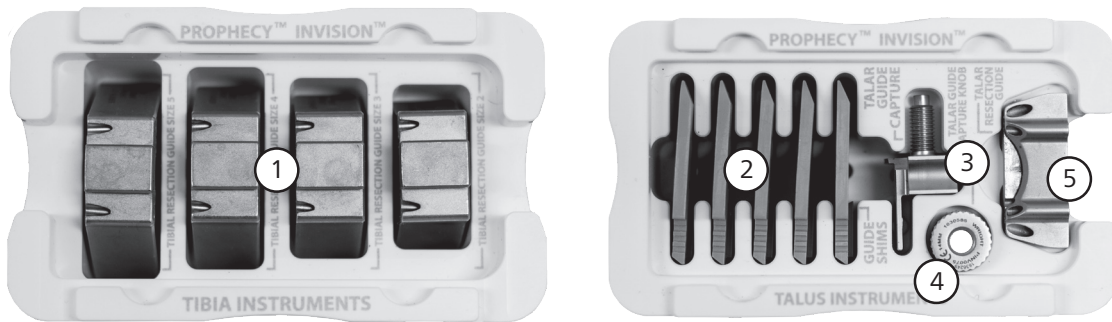


- | | |
|--|---|
| 1. Foot Holder Tie-In Bracket (PTA00080) | 6. Bushing Attachment (PTA00020) |
| 2. C-Bracket (PTA00010) | 7. Anterior Mounting Plate (PTA00040) |
| 3. Toe Plate Attachment (PTA00050) | 8. Wire Pliers (RR3034) |
| 4. Drill Guide Cartridge (PTA00070) | 9. Resection Guides (PTA00092 – PTA00096) |
| 5. Reamer Stabilizer Guide (PTA00060) | 10. PROPHECY INBONE Instrument Case (PTA0100) |

PINVKIT1 — PROPHECY INVISION Instrument Kit

Part #	Description
PINV1000	PROPHECY INVISION TAL RSCTN GUIDE
PINV2000	PROPHECY INVISION TIB RSCTN GUIDE SZ 2
PINV3000	PROPHECY INVISION TIB RSCTN GUIDE SZ 3
PINV4000	PROPHECY INVISION TIB RSCTN GUIDE SZ 4
PINV5000	PROPHECY INVISION TIB RSCTN GUIDE SZ 5
PINV0064	PROPHECY INVISION GUIDE SHIM
PINV0074	PROPHECY INVISION TAL GUIDE CAPTURE
PINV0075	PROPHECY INVISION TAL GUIDE CAPTURE KNOB
60016618	PROPHECY INVISION SPACER INSTRUMENT CADDY
60016619	PROPHECY INVISION RESECTION INSTRUMENT CADDY

PINVKIT1 — PROPHECY INVISION Instrument Kit



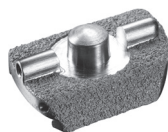
1. INVISION Tibial Resection Guides Sizes 2-5 (PINV2000 - PINV5000)
2. Guide Shims (PINV0064)
3. Talar Guide Capture (PINV0074)
4. Talar Guide Capture Knob (PINV0075)
5. Talar Resection Guide (PINV1000)



INBONE Tibial Stems Plasma Coated

Part #	Description
200011901	Top Stem, 14mm
200011902	Top Stem, 16mm
200011904	Top Stem, 12mm
200010901	Mid Stem, 14mm
200010902	Mid Stem, 16mm
200010903	Mid Stem, 18mm
200010904	Mid Stem, 12mm
200009901	Base Stem, 16mm
200009902	Base Stem, 18mm

NOTE: Contact Wright Medical if material content information is required.



INBONE Size 2 Tibial Tray

Part #	Description
200252902	Left, Standard
220252902	Left, Long
200222902	Right, Standard
220222902	Right, Long

INBONE Size 3 Tibial Tray

Part #	Description
200252903	Left, Standard
220252903	Left, Long
200222903	Right, Standard
220222903	Right, Long

INBONE Size 4 Tibial Tray

Part #	Description
200252904	Left, Standard
220252904	Left, Long
200222904	Right, Standard
220222904	Right, Long

INBONE Size 5 Tibial Tray

Part #	Description
200252905	Left, Standard
220252905	Left, Long
200222905	Right, Standard
220222905	Right, Long



INVISION Size 2 Tibial Tray

Part #	Description
60002401	+4mm, Standard
60002402	+4mm, Long
60002801	+8mm, Standard
60002802	+8mm, Long

INVISION Size 3 Tibial Tray

Part #	Description
60003401	+4mm, Standard
60003402	+4mm, Long
60003801	+8mm, Standard
60003802	+8mm, Long

INVISION Size 4 Tibial Tray

Part #	Description
60004401	+4mm, Standard
60004402	+4mm, Long
60004801	+8mm, Standard
60004802	+8mm, Long

INVISION Size 5 Tibial Tray

Part #	Description
60005401	+4mm, Standard
60005402	+4mm, Long
60005801	+8mm, Standard
60005802	+8mm, Long



INBONE Size 1+ Poly Inserts

Part #	Description
220222106E	Size 1+, 6mm
220222108E	Size 1+, 8mm
220222110E	Size 1+, 10mm
220222112E	Size 1+, 12mm
220222114E	Size 1+, 14mm
220222116E	Size 1+, 16mm

INBONE Size 3+ Poly Inserts

Part #	Description
220224310E	Size 3+, 10mm
220224312E	Size 3+, 12mm
220224314E	Size 3+, 14mm
220224316E	Size 3+, 16mm
2202243168E	Size 3+, 18mm
220224320E	Size 3+, 20mm

INBONE Size 2 Poly Inserts

Part #	Description
220222206E	Size 2, 6mm
220222208E	Size 2, 8mm
220222210E	Size 2, 10mm
220222212E	Size 2, 12mm
220222214E	Size 2, 14mm
220222216E	Size 2, 16mm

INBONE Size 4 Poly Inserts

Part #	Description
220224409E	Size 4, 9mm
220224411E	Size 4, 11mm
220224413E	Size 4, 13mm
220224415E	Size 4, 15mm
220224417E	Size 4, 17mm
220224419E	Size 4, 19mm

INBONE Size 2+ Poly Inserts

Part #	Description
220223208E	Size 2+, 8mm
220223210E	Size 2+, 10mm
220223212E	Size 2+, 12mm
220223214E	Size 2+, 14mm
220223216E	Size 2+, 16mm
220223218E	Size 2+, 18mm

INBONE Size 4+ Poly Inserts

Part #	Description
220225410E	Size 4+, 10mm
220225412E	Size 4+, 12mm
220225414E	Size 4+, 14mm
220225416E	Size 4+, 16mm
220225418E	Size 4+, 18mm
220225420E	Size 4+, 20mm

INBONE Size 3 Poly Inserts

Part #	Description
220223308E	Size 3, 8mm
220223310E	Size 3, 10mm
220223312E	Size 3, 12mm
220223314E	Size 3, 14mm
220223316E	Size 3, 16mm
220223318E	Size 3, 18mm

INBONE Size 5 Poly Inserts

Part #	Description
220225509E	Size 5, 9mm
220225511E	Size 5, 11mm
220225513E	Size 5, 13mm
220225515E	Size 5, 15mm
220225517E	Size 5, 17mm
220225519E	Size 5, 19mm

INBONE Size 5+ Poly Inserts

Part #	Description
220226510E	Size 5+, 10mm
220226512E	Size 5+, 12mm
220226514E	Size 5+, 14mm
220226516E	Size 5+, 16mm
220226518E	Size 5+, 18mm
220226520E	Size 5+, 20mm



INBONE Talar Domes

Part #	Description
220220901	Size 1
220220902	Size 2
220220903	Size 3
220220904	Size 4
220220905	Size 5



INBONE Talar Stems

Part #	Description
200347901	10mm Long
200347902	14mm Long



INVISION Talar Domes

Part #	Description
60002001	Size 1 Standard
60002002	Size 2 Standard
60002003	Size 3 Standard
60002004	Size 4 Standard
60002005	Size 5 Standard
60022001	Size 1 +3mm
60022002	Size 2 +3mm
60022003	Size 3 +3mm
60022004	Size 4 +3mm
60022005	Size 5 +3mm



INFINITY Talar Domes

Part #	Description
33630021	Size 1
33630022	Size 2
33630023	Size 3
33630024	Size 4
33630025	Size 5



INVISION Size 1 Talar Plates

Part #	Description
6000501L	Left, 3mm, Standard
6000511L	Left, 3mm, Long
6000501R	Right, 3mm, Standard
6000511R	Right, 3mm, Long

INVISION Size 4 Talar Plates

Part #	Description
6000504L	Left, 3mm, Standard
6000514L	Left, 3mm, Long
6000504R	Right, 3mm, Standard
6000514R	Right, 3mm, Long

INVISION Size 2 Talar Plates

Part #	Description
6000502L	Left, 3mm, Standard
6000512L	Left, 3mm, Long
6000502R	Right, 3mm, Standard
6000512R	Right, 3mm, Long

INVISION Size 5 Talar Plates

Part #	Description
6000505L	Left, 3mm, Standard
6000515L	Left, 3mm, Long
6000505R	Right, 3mm, Standard
6000515R	Right, 3mm, Long

INVISION Size 3 Talar Plates

Part #	Description
6000503L	Left, 3mm, Standard
6000513L	Left, 3mm, Long
6000503R	Right, 3mm, Standard
6000513R	Right, 3mm, Long



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