

Surgical Technique

Hinge Disassembly and
Rebuild Technique



LEGION[®] HK

Hinge Knee System
with OXINIUM[®] Technology



LEGION[◇] HK

Hinge Knee System

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Nota bene

The technique description herein is made available to the healthcare professional to illustrate a suggested treatment for the uncomplicated procedure. In the final analysis, the preferred treatment is that which addresses the needs of the specific patient. The following technique is for informational and educational purposes only. It is not intended to serve as medical advice. It is the responsibility of treating physicians to determine and utilize the appropriate products and techniques according to their own clinical judgment for each of their patients. For more information on the product, including its indications for use, contraindications, and product safety information, please refer to the product label and the Instructions for Use (IFU).

Revision Knee Arthroplasty Surgical Technique

LEGION[◊] HK Hinge Knee System

Introduction

The LEGION HK Hinge Knee System is an extension of the LEGION RK Revision Knee System that features OXINIUM[®] Technology and CoCr materials. This surgical technique follows the same intuitive flow as the LEGION Revision technique and utilizes the same cutting instruments.



Preoperative evaluation

The preoperative evaluation of a failed total knee arthroplasty begins with a complete history and physical examination. Determination of the etiology or failure will also require radiographic evaluation, occasionally the use of nuclear bone scans, the use of laboratory studies and/or aspiration to rule out the possibility of indolent infection. It is imperative that the cause of failure be determined pre-operatively in order to help maximize the likelihood of post-operative success.

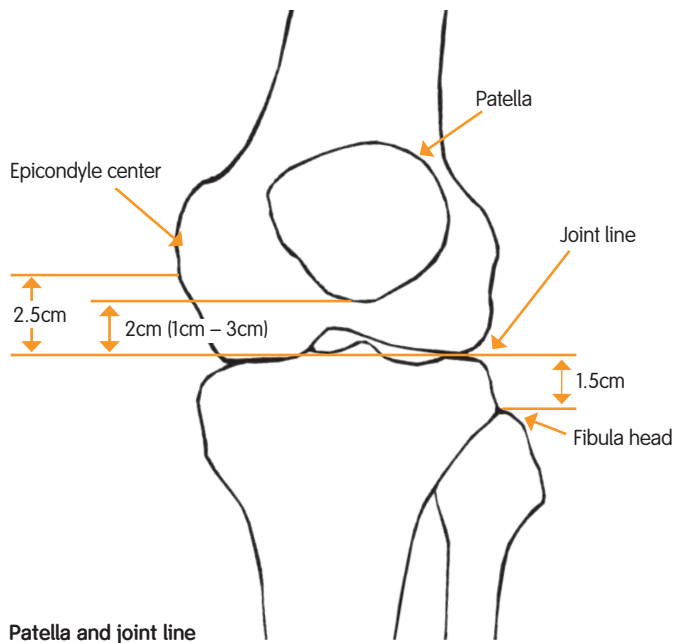
If bone defects secondary to osteolysis exist pre-operatively then the surgeon performing the procedure must understand the implications of this bone loss as well as techniques required to manage them. CT scans can be a valuable tool in determining structural defects. Gross instability or bone loss in the area of the collateral ligaments may need a stabilized or constrained prosthesis.

Appropriate patella position should be assessed preoperatively and corrective strategies developed, if needed. A need to move the joint line distally can be a common occurrence in Revision TKA, and if known preoperatively, can save time over adjusting the joint line after the trial range of motion. An assessment of the joint line and patella height should be completed preoperatively and/or prior to the removal of any existing components with any necessary corrections noted. The noted corrections can then be performed within the initial steps of the surgical technique – distal resection, A/P block resections and Femoral Trial.

System summary

The LEGION® HK Hinge Knee System is a primarily condylar-loading design, as opposed to an axial-loading hinged knee system. Unlike other hinged knee systems, the LEGION HK system is designed with femoral rollback as defined by articular contact.

The LEGION HK Hinge Knee System utilizes the same footprint for the femoral and tibial components for their respective size offerings as the LEGION Revision System (sizes 3-7 for the femoral and tibial components). However, the LEGION HK System has no restrictions on size matching; in other words, a size 7 fits a size 2 in either direction.



Femoral component

The LEGION® HK System femoral implant offerings are available in OXINIUM and CoCr materials. Femoral sizes and implant material vary based on market availability.

Bone preparation requires two variations from the LEGION Revision femoral technique. The posterior resection will be made through the 10mm posterior wedge resection slots which eliminate the need for posterior chamfer resections.

The second variation is a slight difference in the intracondylar box geometry. For this difference, the LEGION HK system includes its own box reamer and chisel. This preparation is the same as the LEGION Revision System but is produced through the LEGION HK femoral trial.

Tibial component

The LEGION HK System tibial implant offerings are available in CoCr and Titanium materials. Tibia Baseplate sizes and implant material vary based on market availability. The only variation between the LEGION Revision System and the LEGION HK system is the length of the tibial tray stem connection. The LEGION HK tibial tray is approximately 15mm longer; therefore additional reaming depth is required on the tibial preparation.

Tibial wedges

The tibial wedge offerings match the LEGION Revision System in sizes, heights and geometries. Full wedges are in 10mm and 15mm heights and hemi-stepped wedges are in 5mm, 10mm, and 15mm heights. Do note however, the tibial wedges labeled “LEGION RK/HK” are the only ones that may be used with the LEGION HK tibial component.

Femoral wedges

The femoral wedges come in hemi, symmetrical configurations in distal heights of 5mm, 10mm, 15mm and 20mm.

Tibial inserts

In general, the insert height offerings 11mm, 13mm, 15mm, 18mm and 21mm and peripherally fit two size tibial trays – pairing are sizes 2-3, 4-5 and 6-7. The guided-motion inserts are asymmetrical (left and right).

The LEGION HK **guided-motion** insert is a ‘fixed-bearing’ design. The insert is locked to the tibial tray through a redundant locking configuration to help minimize motion between the tibial tray and distal insert surfaces. The primary distinction of the LEGION guided-motion design and other designs is the guided-rotation/‘screw-home’ kinematics. The guided-motion insert is designed to help induce normal kinematic rotation to ‘zero’ the Q-angle of the patellar/quad mechanism through the range of motion. When the Q-angle is reduced, the medial/lateral shear forces are reduced from the patella, which in turn reduces the forces for dislocation/subluxation. However, other conditions may still exist.

Stems and offset couplers

All LEGION stems (straight and bowed in cemented and press-fit configurations) can be used with the LEGION HK Hinge Knee System.

All LEGION Revision Offset Couplers function with the LEGION HK system.

Exposure

Exposure of the revision total knee can be complicated by previous incisions, stiffness or a fibrotic soft tissue envelope. In general, greater exposure is required for a revision total knee arthroplasty as compared with a primary procedure. Proper tissue planes medially and laterally must be elevated and fasciocutaneous flaps must be maintained in order to minimize wound healing complications. In general, a standard medial parapatellar arthrotomy is used when feasible.

Excision of scar or dysvascular tissue can facilitate the exposure. Posterior capsular release with posterior mobilization of the neuron-vascular bundle is sometimes necessary to facilitate exposure of the prosthesis.

If infection is encountered, complete excision of reactive tissue, capsule, ligaments and removal of prosthetic components may be necessary to assure adequate rates of local control.

Replacing the LEGION[◇] HK linkage, femoral assembly or tibial assembly

The LEGION HK is designed to accommodate Trial Components interfaces for accessing partial component replacements.

Note: In the event of replacing components, care should be taken to prevent damage to remaining articular surfaces.

For femoral replacements (Figure 1), follow the steps necessary in the standard Femoral Preparation technique as described in the LEGION Hinge surgical technique, 71281506.

For tibial replacements (Figure 2), follow the steps necessary in the standard Tibial Preparation technique as described in the LEGION Hinge surgical technique, 71281506.

For Linkage removal and replacement, the following pages are provided.

Figure 1

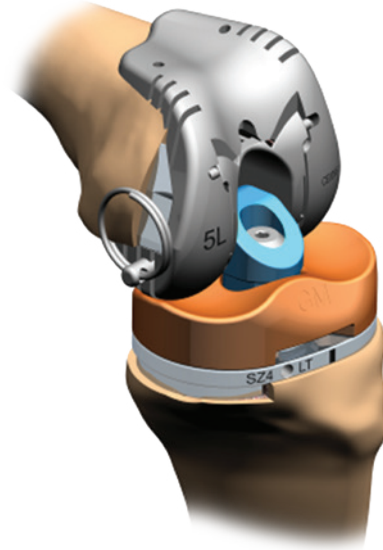
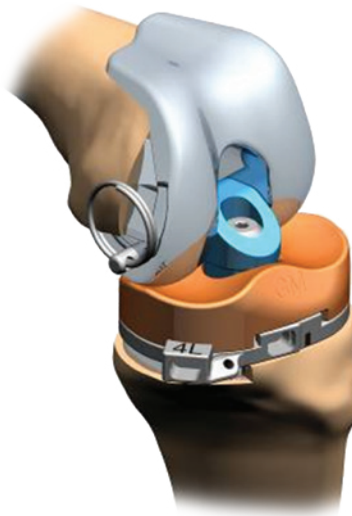


Figure 2



1. Attach the 4.75mm Hex Bit (Figure 3b) to the 150in-lb Torque Wrench (Figure 3a). Insert the Tibial Stabilizing Tool (Figure 3c) to the anterior hole of the Tibial Implant. Remove the Post Bolt turning counterclockwise (Figure 3) while applying a counter torque with the Tibial Stabilizing Tool. Remove the Post Bolt.
2. The Post Sleeve will require impact to the side of the Link (Figure 4) to disengage the taper junction.

Note: The LEGION® Hinge Torque Wrench should be calibrated every six months.

Figure 3

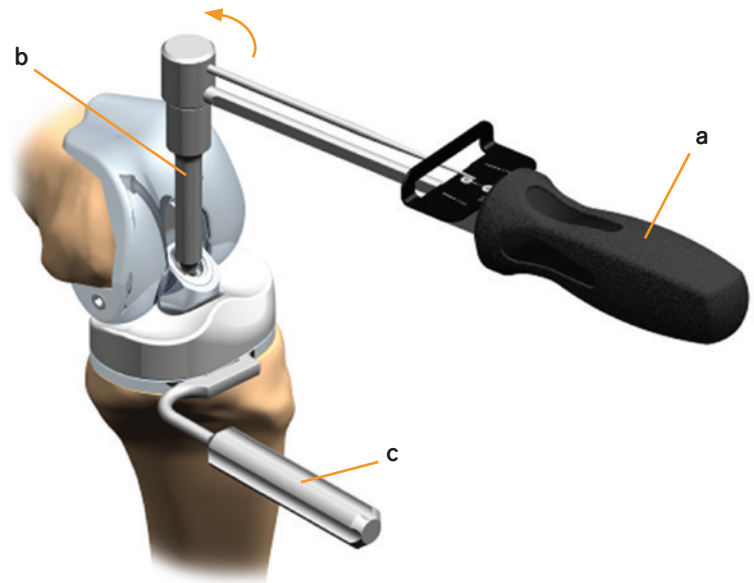
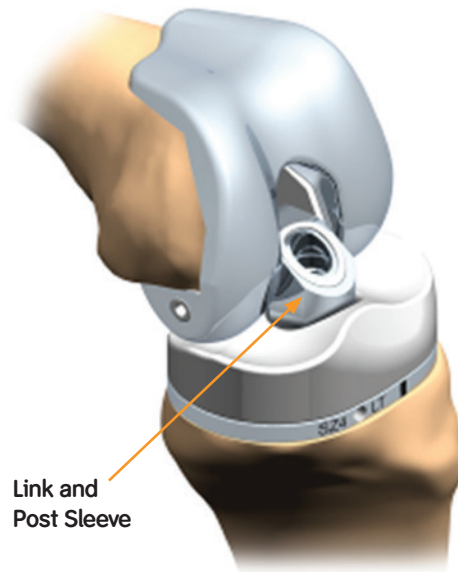


Figure 4

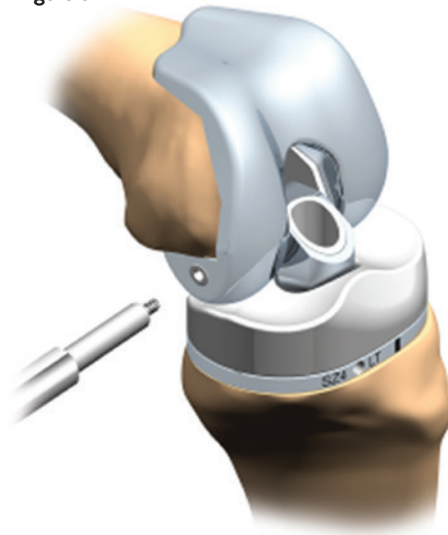


- 3 Thread (clockwise) the Axle Plug Removal Tool (Figure 5) into the exposed Axle Plug dimple until flush. Pull the Axle Plug out of the Femoral axle hole.

Note: For the LEGION CoCr Hinge there are two options for removal of the axle assembly. The first method involves removal from one side of the femoral due to limited accessibility to the opposite side.



Figure 5

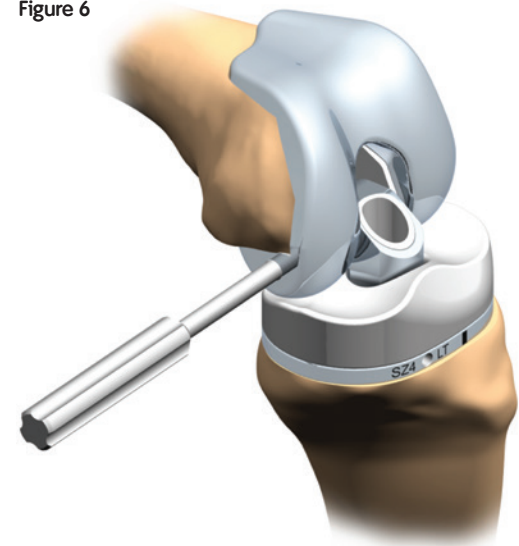


Note: The LEGION OXINIUM Hinge axle assembly must be removed from the medial side of the femoral due to the axle being threaded into the lateral side of the femoral component.

Insert the Axle Inserter Tool into axle hole of the Femoral until it makes contact with the Axle within the hole (Figure 6). Thread (clockwise) Axle Inserter Tool into the Axle a minimum of five turns. Remove the Axle from the Femoral axle hole.



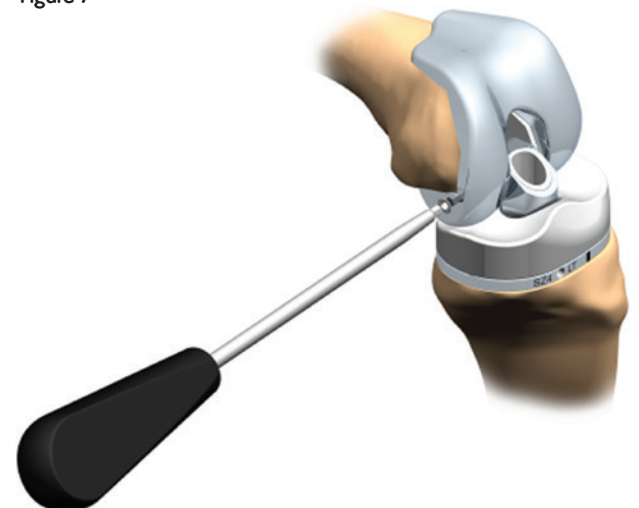
Figure 6



Note: The LEGION OXINIUM Hinge axle assembly must be removed from the medial side of the femoral due to the axle being threaded into the lateral side of the femoral component.

For CoCr only, if both medial and lateral aspects of the posterior femoral component have good exposure, The Axle Plugs (2) and the Axle can be driven out from one side to the other with the 3.5mm Hex Driver (Figure 7). If this method is chosen, ensure that both Axle Plugs and the Axle are removed.

Figure 7



4. Remove the remaining linkage components (Post Sleeve, Hyperextension Stop, and Link Assembly) within the intercondylar box (Figure 8).
5. To remove a Guided-Motion Insert, use the 3.5mm Hex Driver to remove the Insert Locking Screw (Figure 9).

Figure 8a

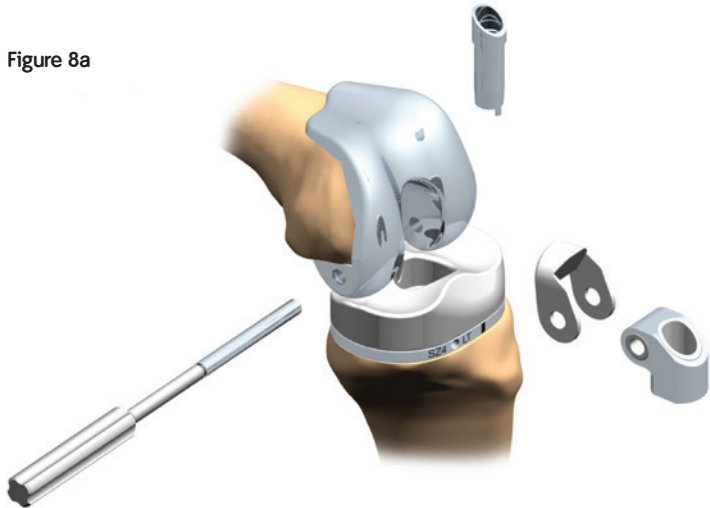


Figure 8b

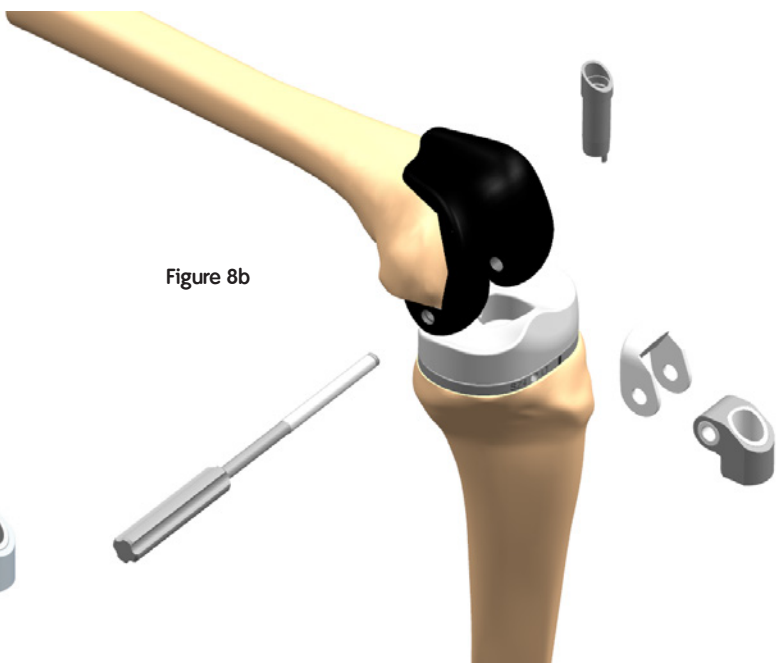
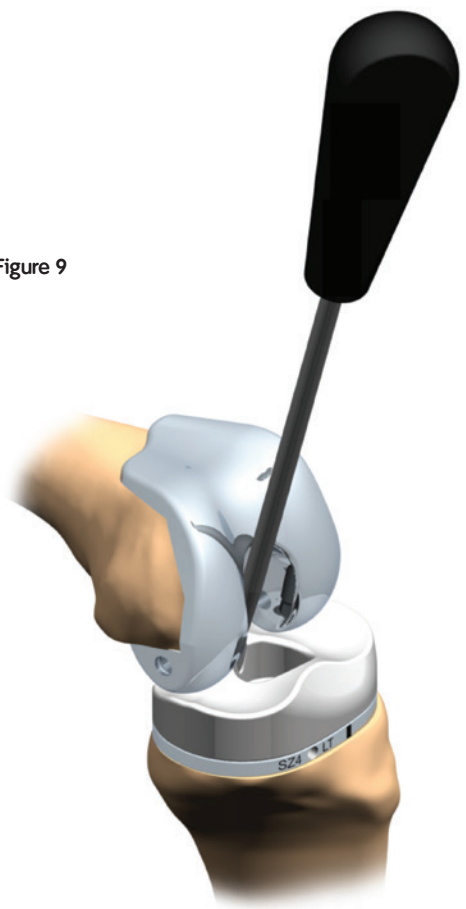


Figure 9



Implant linkage assembly

1. Install the Hyperextension stop and the Link together in the direction and orientation shown in Figure 10.

Note: The Trial Axle can be inserted from either side.

Figure 10a

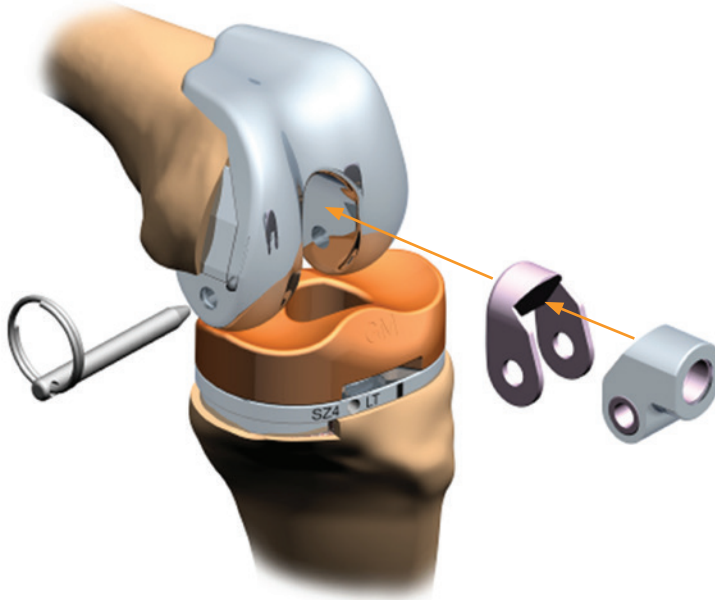
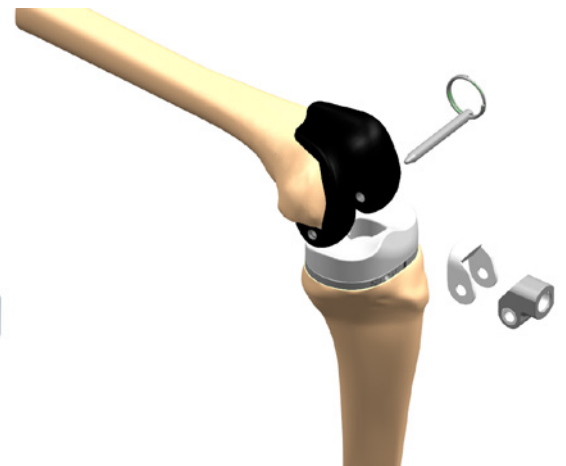


Figure 10b



2. Install the Hyperextension stop and Link assembly in the cruciate gap of the femoral component noting the direction and rotation of the assembly as shown in Figure 11.

Figure 11a

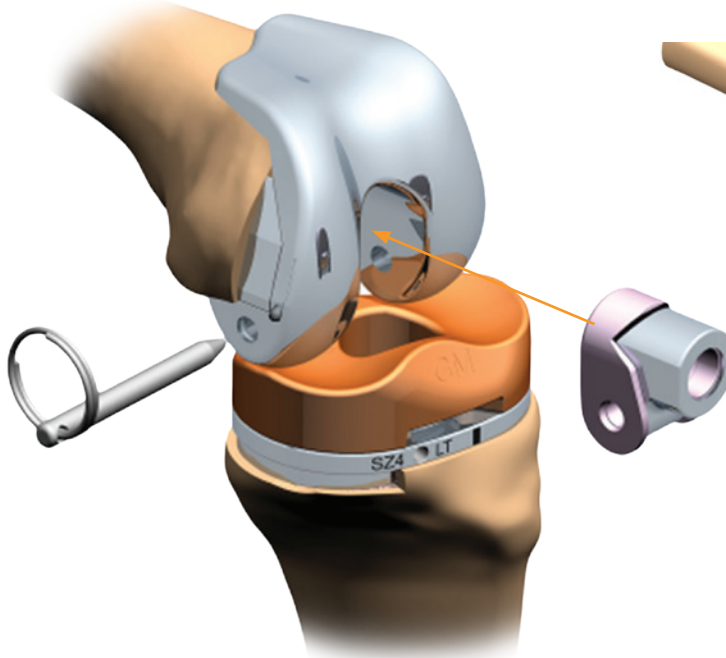
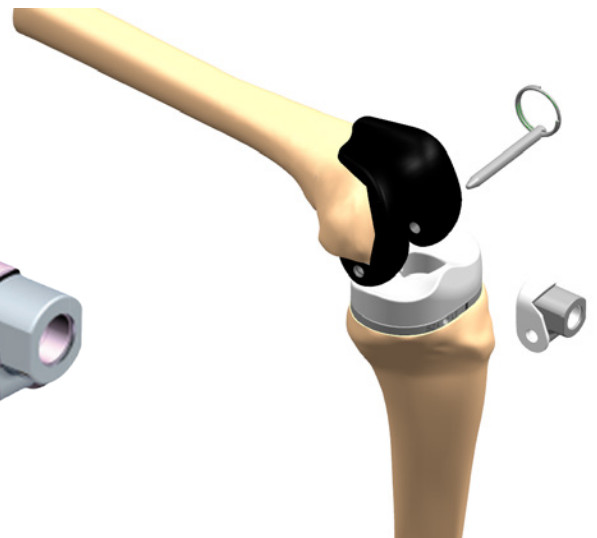


Figure 11b



3. Install the Trial Axle through the axle hole to hold this assembly in place for the installation of the implant axle. See Figures 12 and 13.
4. Ensure Link assembly is located correctly in femoral per Figure 13 and ensure it will freely rotate around the Trial Axle.

Figure 12a

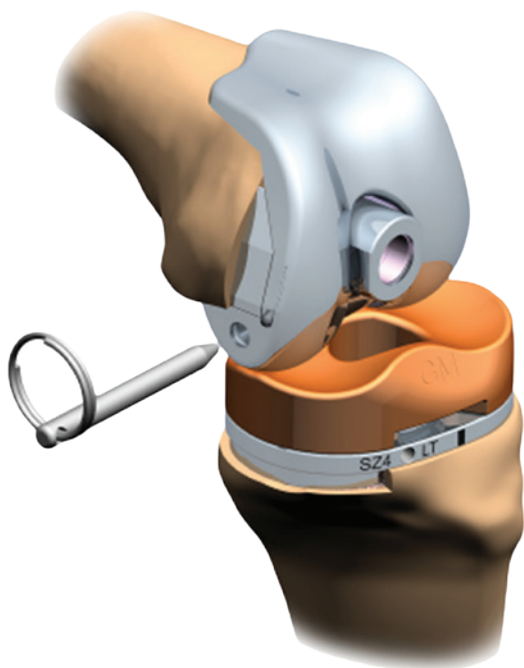


Figure 12b

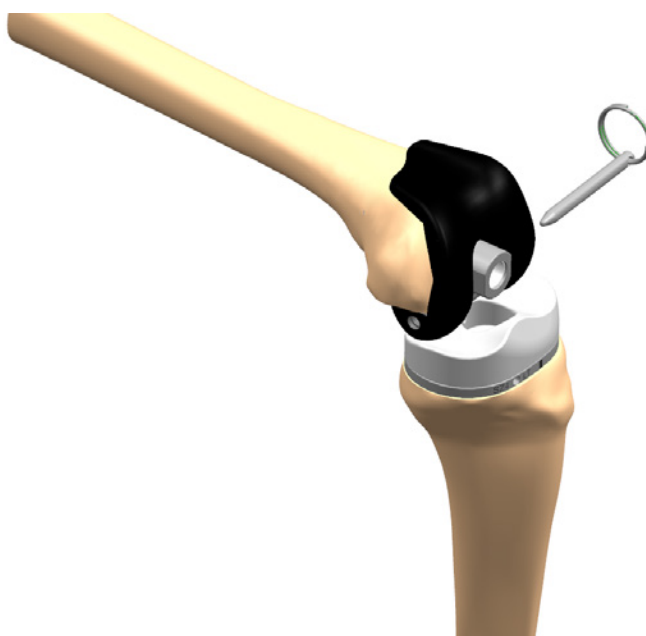


Figure 13a

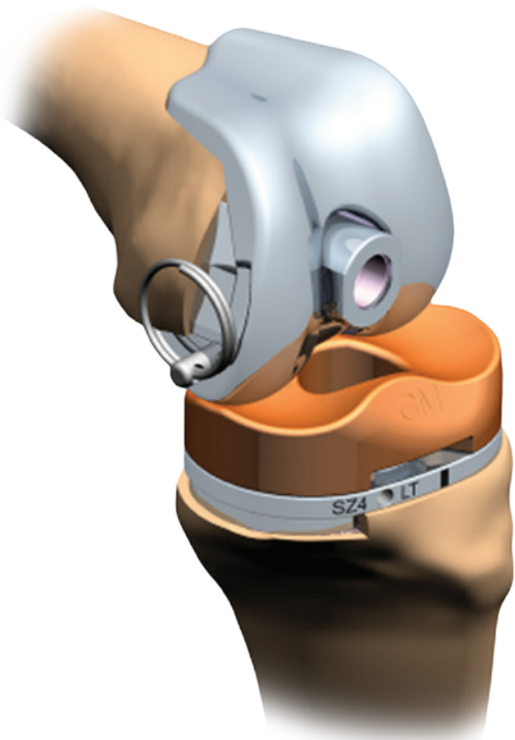
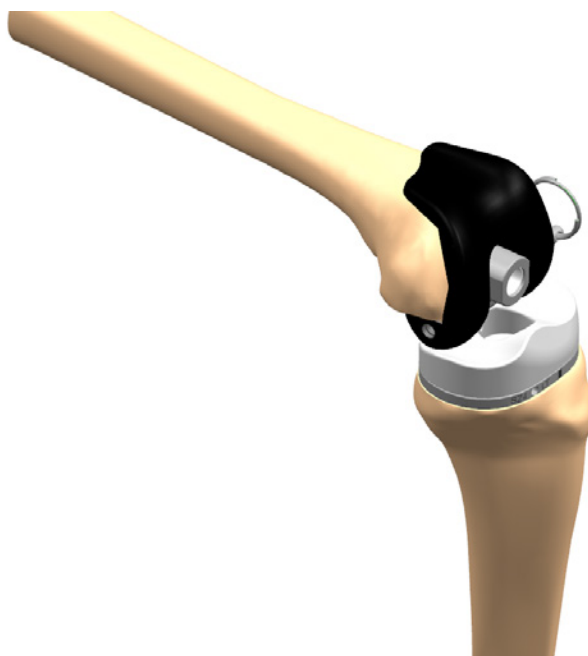


Figure 13b



5. If the opposite side is accessible, install the implant axle from the opposite side that the Trial Axle was installed. While installing the Implant Axle remove the trial axle in the opposite direction to keep the Hyperextension and Link assembly in place as shown in Figures 14 and 15.

If the opposite side is not accessible, hold the link assembly in place while replacing the Trial Axle with the Implant Axle.

Note: The LEGION OXINIUM Hinge Axle must be inserted from the medial side of the femoral. This is due to the axle being threaded into the lateral side of the femoral component. See Figure 15b.

Figure 14a

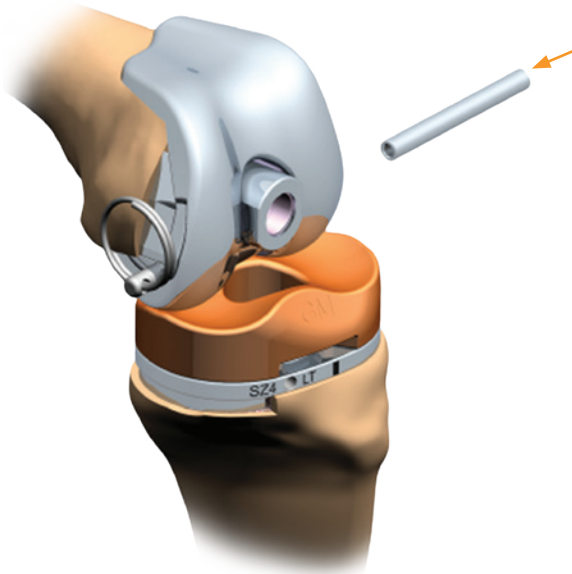


Figure 14b

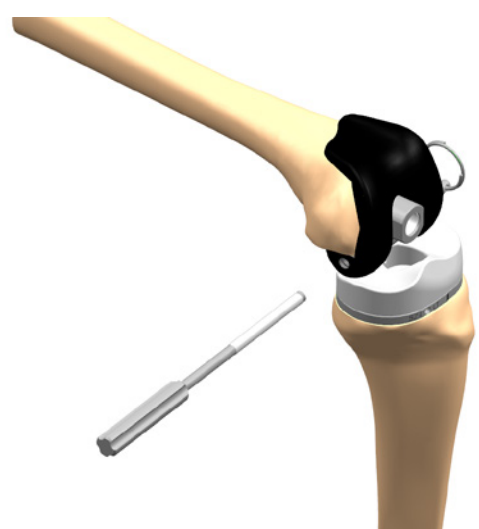


Figure 15a

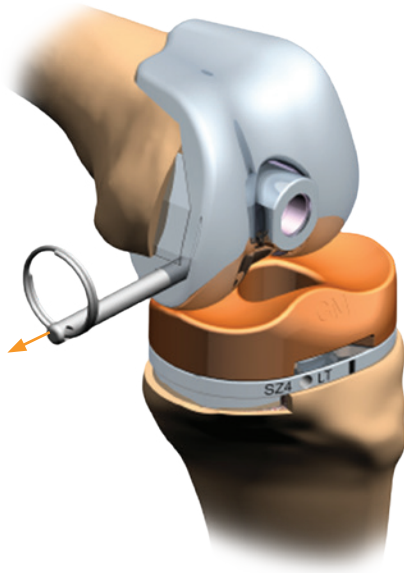
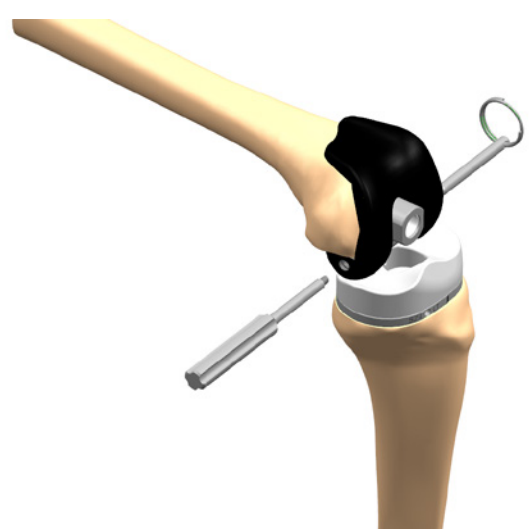


Figure 15b



6. Install the axle plugs one at a time (Figure 16). Use caution as they are very small and easy to drop. Ensure the axle plugs are turned in the correct direction to properly engage the inner lock groove – the hole should be facing outward as shown in Figure 17. Using a standard mallet, tap the axle plugs into the axle hole until they are flush with the outer face of the femur. Ensure the axle does not disengage from the Link assembly.

Repeat this procedure for the opposite of the axle hole (if the axle holes are not flush), again, ensuring that the axle plugs are flush with the outside of the femoral component. (Inspect the outer edge of the tapped axle plugs for possible polyethylene rings – as some of the lock tab can shear when installing. This is to be expected and is not a failure of the axle plugs).

Figure 16

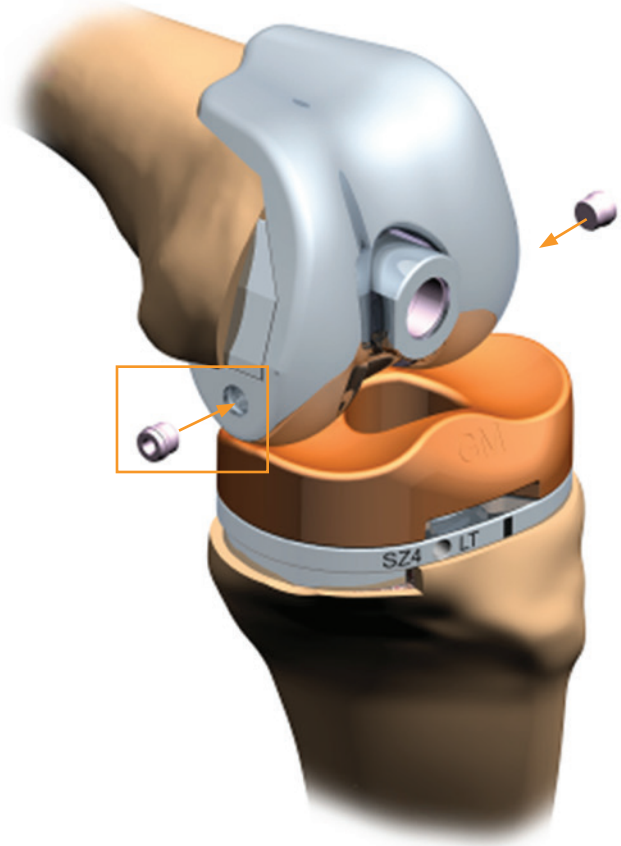
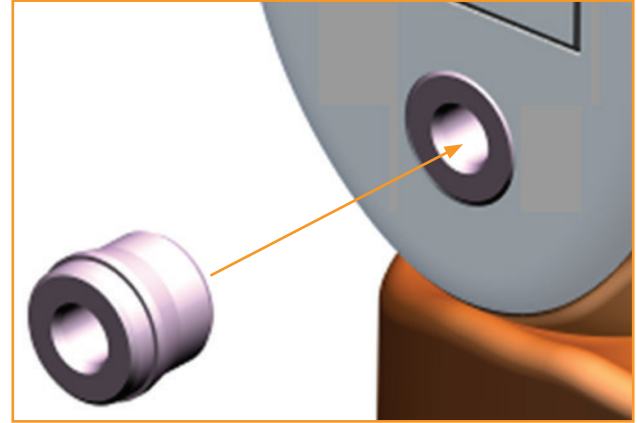


Figure 17



Component assembly

7. Tibial insert assembly

Select the appropriate size/hand and thickness Guided-Motion Insert. Pre-install the Guided-Motion Insert lock screw into the posterior aspect of the insert with 2 – 3 turns using the 3.5mm Hex Screwdriver (Figure 18). Place the Insert onto Tibial Base making sure to engage anterior slot on distal side of Insert with tab on Tibial Base (Figure 19 and 20).

Figure 18



Figure 19

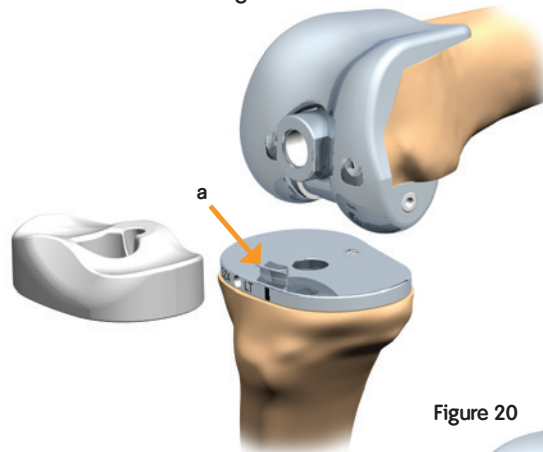
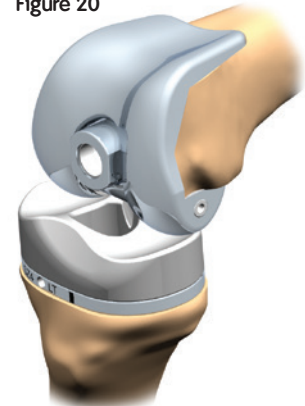


Figure 20



8. Use the 3.5mm Hex Driver to secure the lock screw into the Tibial Base (Figure 21) and then torque with appropriate 75 in-lb Torque Wrench (Figure 22).

Sublux the tibia slightly anterior and rotate the Link down into the Insert (Figure 23).

9. Attach the appropriate Height Sleeve for the chosen insert thickness to the Sleeve Insertion Tool. The Sleeve Insertion Tool lever (Figure 24a) must be depressed to retain the sleeve. The alignment tab on the sleeve (Figure 24b) and the downward slope proximally (Figure 24c) will be aligned to the anterior of the tibia.

Note: The LEGION® Hinge Torque Wrench should be calibrated every six months.

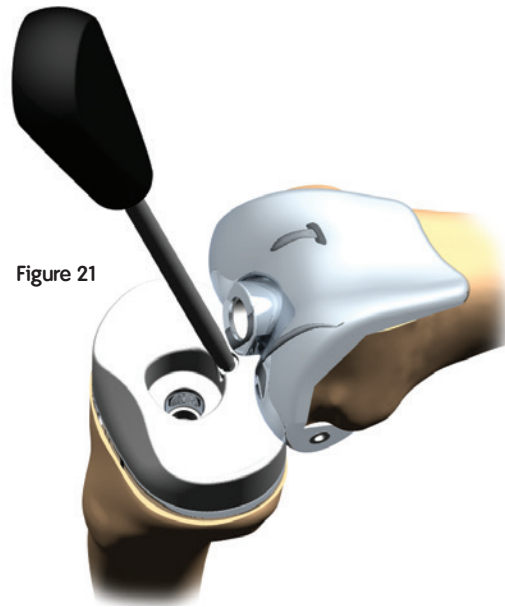


Figure 21

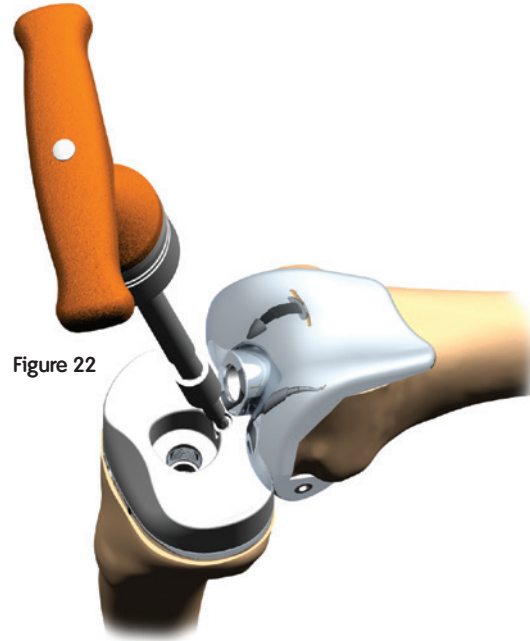


Figure 22

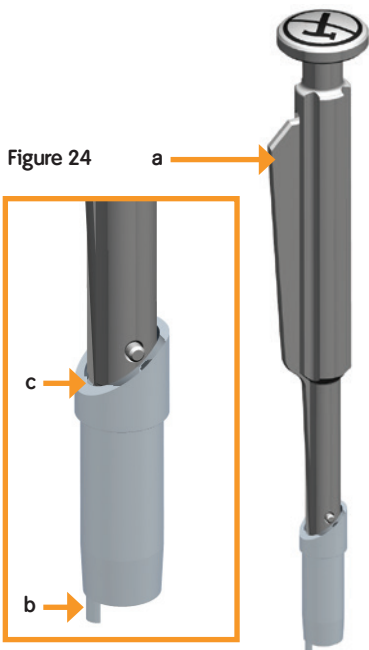


Figure 24

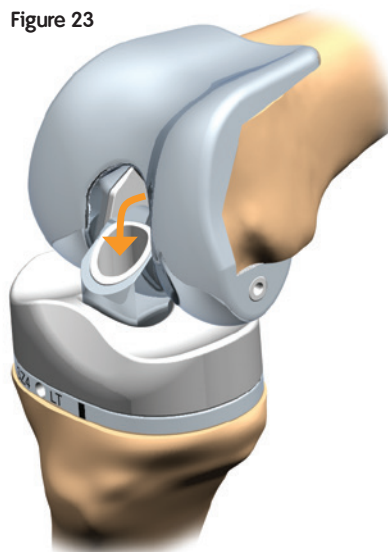


Figure 23

10. Insert the Sleeve through the Link Assembly and into the Tibial Base (Figure 25). Rotate the Sleeve until the alignment tab aligns and taper engages. With femoral tibial contact, the Sleeve should be flush or below the surface of the link (Figure 26a).
11. A slight bump with the palm of the hand will hold the Sleeve in place until the Post Bolt is installed. Do not impact the Sleeve Insertion Tool with a hammer.
12. Place the appropriate height bolt for the Insert selected (i.e. 11mm, 13mm, 15mm, 18mm, or 21mm) through the Link Assembly and Sleeve. Use the 4.75mm Hex Screwdriver to tighten the bolt (Figure 27).

Figure 25

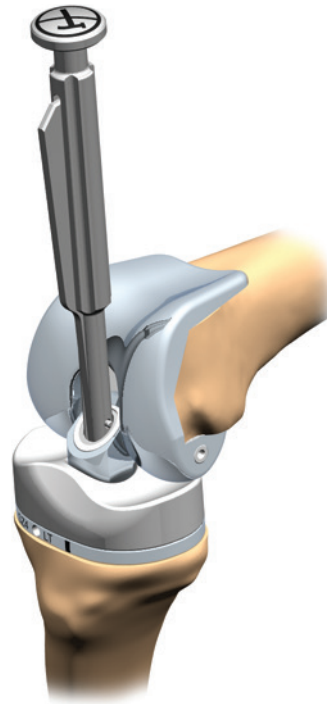


Figure 27

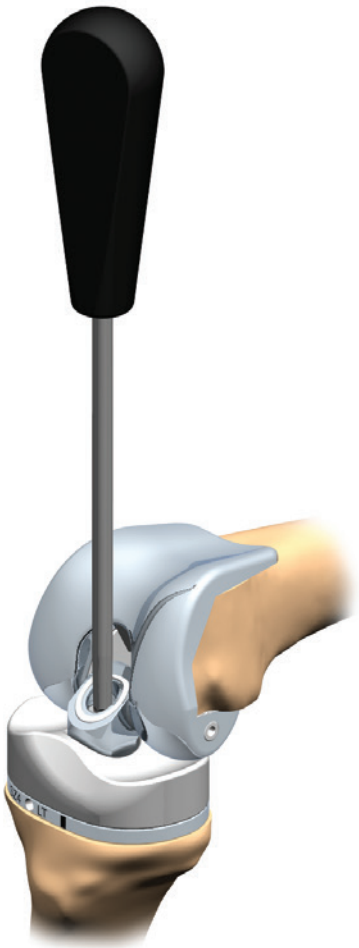
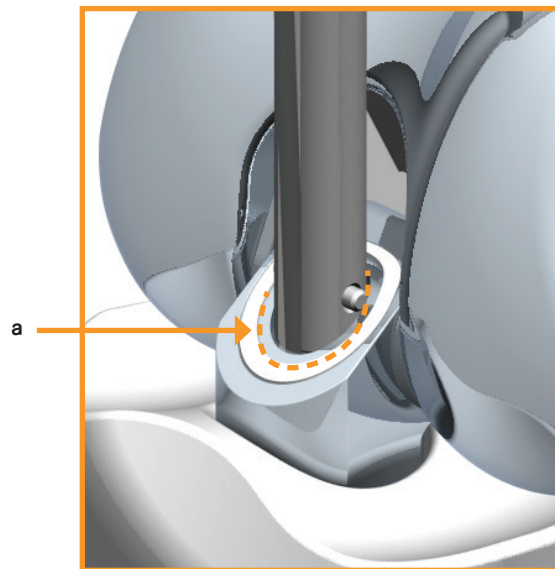


Figure 26



Preliminary torque

13. Attach the 4.75mm Hex Bit (Figure 28b) to the 150 in-lb minimum* Torque Wrench (Figure 28a). Insert the Tibial Stabilizing Tool (Figure 28c) to the anterior hole of the Tibial Implant. Torque the Post Bolt to 150 in-lb (Figure 30) while applying a Counter Torque with the Tibial Stabilizing Tool.

*Torque is at a minimum of 150 in-lb by positioning the indicator outside of the edge of the line (Figure 29).

Note: The LEGION® Hinge Torque Wrench should be calibrated every six months.

14. To ensure adequate impaction of the sleeve taper junction, attach the Universal Extractor (slide hammer) to the Hinge Sleeve Impactor and insert into the opening of the Sleeve above the head of the Post Bolt (Figure 30).

Note: This step is required to make sure the bolt is seated correctly into the sleeve. Impaction of the sleeve will result in a slight settling which requires the bolt to be re-torqued.

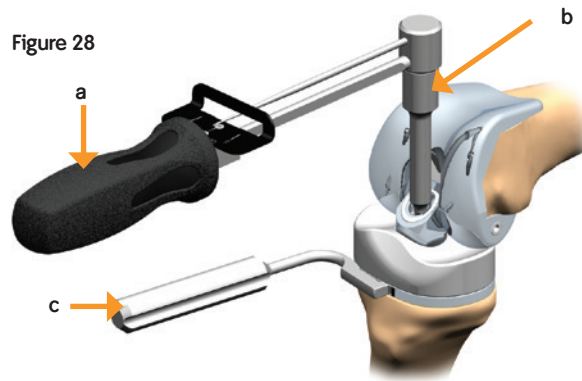
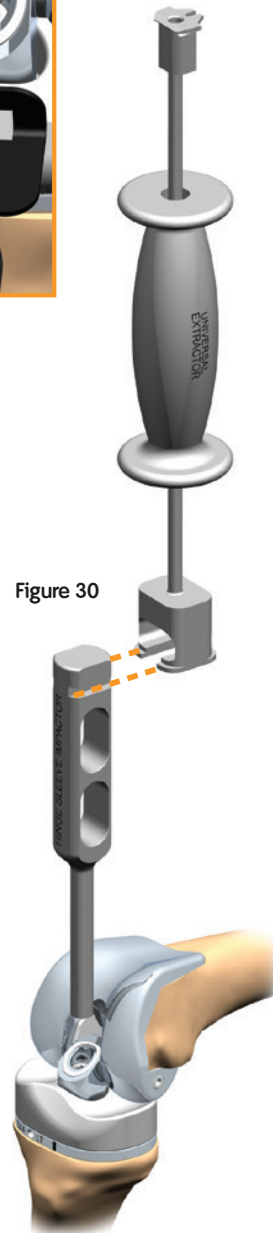


Figure 29



Figure 30



15. In a vertical position, use the entire range of the slide allowing it to free-fall three times. (Figures 31 and 32).

Note: If a Hammer is preferred, impact the Hinge Sleeve Impactor at least three times to ensure the sleeve taper has been properly engaged.

Final torque

16. Reattach the Tibial Stabilizing Tool and Hinge Bolt Torque Wrench and re-torque to 150 in-lb minimum* (Figure 33).

*Torque is at a minimum of 150 in-lb by positioning the indicator outside of the edge of the line (Figure 29).

Note: The LEGION® Hinge Torque Wrench should be calibrated every six months.

Note: Visually inspect the Hex Driver Bit for wear after each surgery. The hex may wear after repeated use.

Figure 31

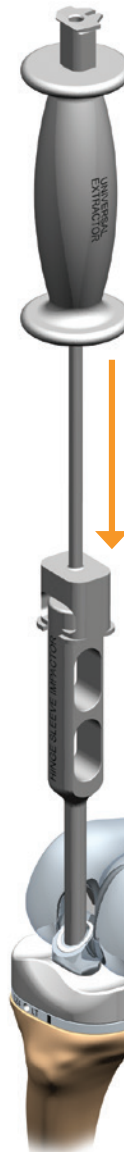


Figure 32

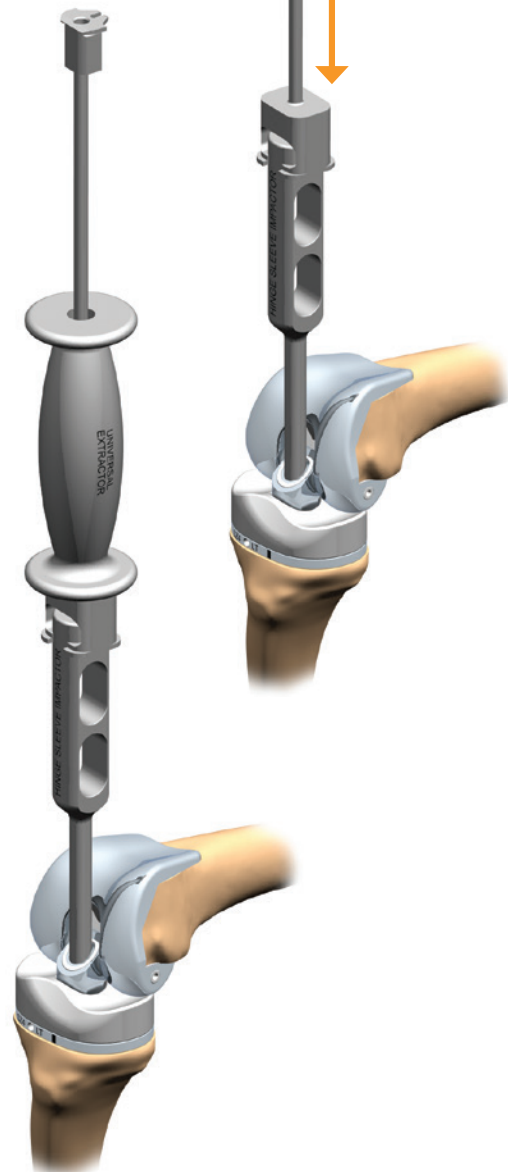
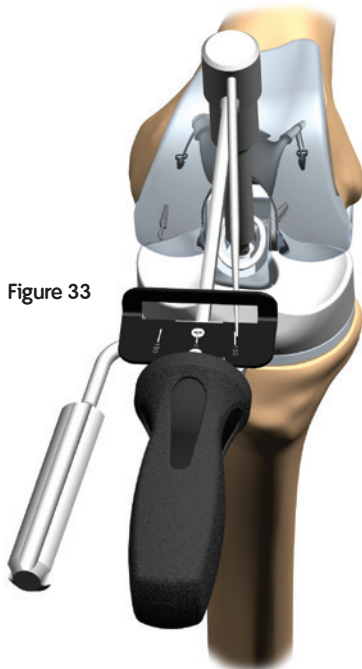


Figure 33



Catalog Information

LEGION® Hinge Femoral Assemblies (CoCr)

Cat. No.	Description
71421363	LEGION Hinge Femoral Assembly Size 3 Right
71421364	LEGION Hinge Femoral Assembly Size 4 Right
71421365	LEGION Hinge Femoral Assembly Size 5 Right
71421366*	LEGION Hinge Femoral Assembly Size 6 Right
71421367	LEGION Hinge Femoral Assembly Size 7 Right
71421373	LEGION Hinge Femoral Assembly Size 3 Left
71421374	LEGION Hinge Femoral Assembly Size 4 Left
71421375	LEGION Hinge Femoral Assembly Size 5 Left
71421376*	LEGION Hinge Femoral Assembly Size 6 Left
71421377	LEGION Hinge Femoral Assembly Size 7 Left

LEGION Hinge Femoral Assemblies (OXINIUM®)

Cat. No.	Description
71935237*	LEGION OXINIUM Hinge Femoral Assembly Size 3 Right
71935238*	LEGION OXINIUM Hinge Femoral Assembly Size 4 Right
71935239*	LEGION OXINIUM Hinge Femoral Assembly Size 5 Right
71935240*	LEGION OXINIUM Hinge Femoral Assembly Size 6 Right
71935241*	LEGION OXINIUM Hinge Femoral Assembly Size 7 Right
71935231*	LEGION OXINIUM Hinge Femoral Assembly Size 3 Left
71935232*	LEGION OXINIUM Hinge Femoral Assembly Size 4 Left
71935233*	LEGION OXINIUM Hinge Femoral Assembly Size 5 Left
71935234*	LEGION OXINIUM Hinge Femoral Assembly Size 6 Left
71935235*	LEGION OXINIUM Hinge Femoral Assembly Size 7 Left

LEGION Hinge Tibial Baseplates (CoCr)

Cat. No.	Description
71421902	LEGION Hinge Tibial Baseplate Size 2 Right
71421903	LEGION Hinge Tibial Baseplate Size 3 Right
71421904	LEGION Hinge Tibial Baseplate Size 4 Right
71421905	LEGION Hinge Tibial Baseplate Size 5 Right
71421906*	LEGION Hinge Tibial Baseplate Size 6 Right
71421907	LEGION Hinge Tibial Baseplate Size 7 Right
71421302	LEGION Hinge Tibial Baseplate Size 2 Left
71421303	LEGION Hinge Tibial Baseplate Size 3 Left
71421304	LEGION Hinge Tibial Baseplate Size 4 Left
71421305	LEGION Hinge Tibial Baseplate Size 5 Left
71421306*	LEGION Hinge Tibial Baseplate Size 6 Left
71421307	LEGION Hinge Tibial Baseplate Size 7 Left

LEGION Hinge Tibial Baseplates (OXINIUM)

Cat. No.	Description
71935248	LEGION OXINIUM Hinge Tibial Baseplate Size 2 Right
71935249	LEGION OXINIUM Hinge Tibial Baseplate Size 3 Right
71935250	LEGION OXINIUM Hinge Tibial Baseplate Size 4 Right
71935251	LEGION OXINIUM Hinge Tibial Baseplate Size 5 Right
71935252	LEGION OXINIUM Hinge Tibial Baseplate Size 6 Right
71935253	LEGION OXINIUM Hinge Tibial Baseplate Size 7 Right
71935242	LEGION OXINIUM Hinge Tibial Baseplate Size 2 Left
71935243	LEGION OXINIUM Hinge Tibial Baseplate Size 3 Left
71935244	LEGION OXINIUM Hinge Tibial Baseplate Size 4 Left
71935245	LEGION OXINIUM Hinge Tibial Baseplate Size 5 Left
71935246	LEGION OXINIUM Hinge Tibial Baseplate Size 6 Left
71935247	LEGION OXINIUM Hinge Tibial Baseplate Size 7 Left

* Material availability varies based on market access.

GENESIS[®] II Round Resurfacing Patellae

Cat. No.	Description
71420574	GENESIS II Round Resurfacing Patella 29mm
71420576	GENESIS II Round Resurfacing Patella 32mm
71420578	GENESIS II Round Resurfacing Patella 35mm
71420580	GENESIS II Round Resurfacing Patella 26mm
71926225	GENESIS II Round Resurfacing Patella 38mm
71926226	GENESIS II Round Resurfacing Patella 41mm

GENESIS II Oval Resurfacing Patellae

Cat. No.	Description
71421029	GENESIS II Oval Resurfacing Patella 29mm
71421032	GENESIS II Oval Resurfacing Patella 32mm
71421035	GENESIS II Oval Resurfacing Patella 35mm
71421038	GENESIS II Oval Resurfacing Patella 38mm
71421041	GENESIS II Oval Resurfacing Patella 41mm

GENESIS II Biconvex Resurfacing Patellae

Cat. No.	Description
71420566	GENESIS II Biconvex Resurfacing Patella 23mm
71420568	GENESIS II Biconvex Resurfacing Patella 26mm
71420570	GENESIS II Biconvex Resurfacing Patella 29mm
71420572	GENESIS II Biconvex Resurfacing Patella 32mm

LEGION[®] Cemented Stem Straight

Cat. No.	Description
71424182	LEGION Cemented Stem 10mm X 120mm Straight
71424184	LEGION Cemented Stem 12mm X 120mm Straight
71424186	LEGION Cemented Stem 14mm X 120mm Straight
71424188	LEGION Cemented Stem 16mm X 120mm Straight
71424190	LEGION Cemented Stem 18mm X 120mm Straight
71424192	LEGION Cemented Stem 20mm X 120mm Straight
71424202	LEGION Cemented Stem 10mm X 160mm Straight
71424204	LEGION Cemented Stem 12mm X 160mm Straight
71424206	LEGION Cemented Stem 14mm X 160mm Straight
71424208	LEGION Cemented Stem 16mm X 160mm Straight
71424210	LEGION Cemented Stem 18mm X 160mm Straight
71424212	LEGION Cemented Stem 20mm X 160mm Straight

LEGION Short Stem Extensions

Cat. No.	Description
71424161	LEGION Short Stem Extension 10 X 80
71424163	LEGION Short Stem Extension 12 X 80
71424165	LEGION Short Stem Extension 14 X 80

LEGION Offset Couplers Angled

Cat. No.	Description
71424221	LEGION Offset Coupler Angled

LEGION Offset Couplers

Cat. No.	Description
71424223	LEGION Offset Coupler 2mm
71424225	LEGION Offset Coupler 4mm
71424227	LEGION Offset Coupler 6mm

LEGION Male to Male Mini Couplers

Cat. No.	Description
71933693	LEGION Male to Male Mini Coupler 2mm
71933694	LEGION Male to Male Mini Coupler 4mm
71933695	LEGION Male to Male Mini Coupler 6mm

LEGION® Press-fit Stems

Cat. No.	Description
71424022	LEGION Pressfit Stem 9mm X 120mm
71424023	LEGION Pressfit Stem 10mm X 120mm
71424024	LEGION Pressfit Stem 11mm X 120mm
71424025	LEGION Pressfit Stem 12mm X 120mm
71424026	LEGION Pressfit Stem 13mm X 120mm
71424027	LEGION Pressfit Stem 14mm X 120mm
71424028	LEGION Pressfit Stem 15mm X 120mm
71424029	LEGION Pressfit Stem 16mm X 120mm
71424031	LEGION Pressfit Stem 18mm X 120mm
71424033	LEGION Pressfit Stem 20mm X 120mm
71424035	LEGION Pressfit Stem 22mm X 120mm
71424037	LEGION Pressfit Stem 24mm X 120mm
71424042	LEGION Pressfit Stem 9mm X 160mm
71424043	LEGION Pressfit Stem 10mm X 160mm
71424044	LEGION Pressfit Stem 11mm X 160mm
71424045	LEGION Pressfit Stem 12mm X 160mm
71424046	LEGION Pressfit Stem 13mm X 160mm
71424047	LEGION Pressfit Stem 14mm X 160mm
71424048	LEGION Pressfit Stem 15mm X 160mm
71424049	LEGION Pressfit Stem 16mm X 160mm
71424051	LEGION Pressfit Stem 18mm X 160mm
71424053	LEGION Pressfit Stem 20mm X 160mm
71424055	LEGION Pressfit Stem 22mm X 160mm
71424057	LEGION Pressfit Stem 24mm X 160mm

LEGION Press-fit Stems Straight

Cat. No.	Description
71424063	LEGION Pressfit Stem 10mm X 220mm Straight
71424064	LEGION Pressfit Stem 11mm X 220mm Straight
71424065	LEGION Pressfit Stem 12mm X 220mm Straight
71424066	LEGION Pressfit Stem 13mm X 220mm Straight
71424067	LEGION Pressfit Stem 14mm X 220mm Straight
71424068	LEGION Pressfit Stem 15mm X 220mm Straight
71424069	LEGION Pressfit Stem 16mm X 220mm Straight
71424071	LEGION Pressfit Stem 18mm X 220mm Straight
71424073	LEGION Pressfit Stem 20mm X 220mm Straight
71424075	LEGION Pressfit Stem 22mm X 220mm Straight
71424077	LEGION Pressfit Stem 24mm X 220mm Straight

LEGION Press-fit Stems Bowed

Cat. No.	Description
71424083	LEGION Pressfit Stem 10mm X 220mm Bowed
71424084	LEGION Pressfit Stem 11mm X 220mm Bowed
71424085	LEGION Pressfit Stem 12mm X 220mm Bowed
71424086	LEGION Pressfit Stem 13mm X 220mm Bowed
71424087	LEGION Pressfit Stem 14mm X 220mm Bowed
71424088	LEGION Pressfit Stem 15mm X 220mm Bowed
71424089	LEGION Pressfit Stem 16mm X 220mm Bowed
71424091	LEGION Pressfit Stem 18mm X 220mm Bowed
71424093	LEGION Pressfit Stem 20mm X 220mm Bowed
71424095	LEGION Pressfit Stem 22mm X 220mm Bowed
71424097	LEGION Pressfit Stem 24mm X 220mm Bowed
71424103	LEGION Pressfit Stem 10mm X 280mm Bowed
71424104	LEGION Pressfit Stem 11mm X 280mm Bowed
71424105	LEGION Pressfit Stem 12mm X 280mm Bowed
71424106	LEGION Pressfit Stem 13mm X 280mm Bowed
71424107	LEGION Pressfit Stem 14mm X 280mm Bowed
71424108	LEGION Pressfit Stem 15mm X 280mm Bowed
71424109	LEGION Pressfit Stem 16mm X 280mm Bowed
71424111	LEGION Pressfit Stem 18mm X 280mm Bowed
71424113	LEGION Pressfit Stem 20mm X 280mm Bowed
71424115	LEGION Pressfit Stem 22mm X 280mm Bowed
71424117	LEGION Pressfit Stem 24mm X 280mm Bowed

GENESIS® II Long Stems

Cat. No.	Description
71420628	GENESIS II Long Stem 10mm x 100mm
71420630	GENESIS II Long Stem 12mm x 100mm
71420632	GENESIS II Long Stem 14mm x 100mm
71420634	GENESIS II Long Stem 16mm x 100mm
71420636	GENESIS II Long Stem 18mm x 100mm
71420638	GENESIS II Long Stem 20mm x 100mm
71420640	GENESIS II Long Stem 22mm x 100mm
71420642	GENESIS II Long Stem 24mm x 100mm
71420647	GENESIS II Long Stem 10mm x 150mm with Slot
71420648	GENESIS II Long Stem 14mm x 150mm
71420649	GENESIS II Long Stem 12mm x 150mm with Slot
71420650	GENESIS II Long Stem 16mm x 150mm

LEGION® Revision/Hinge Hemi Stepped Tibial Wedges

Cat. No.	Description
71423417	LEGION Revision/Hinge Hemi Stepped Tibial Wedge Size 1-2 LL/RM 5mm
71423418	LEGION Revision/Hinge Hemi Stepped Tibial Wedge Size 1-2 LL/RM 10mm
71423419	LEGION Revision/Hinge Hemi Stepped Tibial Wedge Size 1-2 LL/RM 15mm
71423420	LEGION Revision/Hinge Hemi Stepped Tibial Wedge Size 3-4 LL/RM 5mm
71423421	LEGION Revision/Hinge Hemi Stepped Tibial Wedge Size 3-4 LL/RM 10mm
71423422	LEGION Revision/Hinge Hemi Stepped Tibial Wedge Size 3-4 LL/RM 15mm
71423423	LEGION Revision/Hinge Hemi Stepped Tibial Wedge Size 5-6 LL/RM 5mm
71423424	LEGION Revision/Hinge Hemi Stepped Tibial Wedge Size 5-6 LL/RM 10mm
71423425	LEGION Revision/Hinge Hemi Stepped Tibial Wedge Size 5-6 LL/RM 15mm
71423426	LEGION Revision/Hinge Hemi Stepped Tibial Wedge Size 7-8 LL/RM 5mm
71423427	LEGION Revision/Hinge Hemi Stepped Tibial Wedge Size 7-8 LL/RM 10mm
71423428	LEGION Revision/Hinge Hemi Stepped Tibial Wedge Size 7-8 LL/RM 15mm
71423429	LEGION Revision/Hinge Hemi Stepped Tibial Wedge Size 1-2 LM/RL 5mm
71423430	LEGION Revision/Hinge Hemi Stepped Tibial Wedge Size 1-2 LM/RL 10mm
71423431	LEGION Revision/Hinge Hemi Stepped Tibial Wedge Size 1-2 LM/RL 15mm
71423432	LEGION Revision/Hinge Hemi Stepped Tibial Wedge Size 3-4 LM/RL 5mm
71423433	LEGION Revision/Hinge Hemi Stepped Tibial Wedge Size 3-4 LM/RL 10mm
71423434	LEGION Revision/Hinge Hemi Stepped Tibial Wedge Size 3-4 LM/RL 15mm
71423435	LEGION Revision/Hinge Hemi Stepped Tibial Wedge Size 5-6 LM/RL 5mm
71423436	LEGION Revision/Hinge Hemi Stepped Tibial Wedge Size 5-6 LM/RL 10mm
71423437	LEGION Revision/Hinge Hemi Stepped Tibial Wedge Size 5-6 LM/RL 15mm
71423438	LEGION Revision/Hinge Hemi Stepped Tibial Wedge Size 7-8 LM/RL 5mm
71423439	LEGION Revision/Hinge Hemi Stepped Tibial Wedge Size 7-8 LM/RL 10mm
71423440	LEGION Revision/Hinge Hemi Stepped Tibial Wedge Size 7-8 LM/RL 15mm

LEGION Revision/Hinge Full Stepped Tibial Wedges

Cat. No.	Description
71423073	LEGION Revision/Hinge Full Stepped Tibial Wedge Size 1-2 10mm
71423074	LEGION Revision/Hinge Full Stepped Tibial Wedge Size 3-4 10mm
71423075	LEGION Revision/Hinge Full Stepped Tibial Wedge Size 5-6 10mm
71423076	LEGION Revision/Hinge Full Stepped Tibial Wedge Size 7-8 10mm
71423077	LEGION Revision/Hinge Full Stepped Tibial Wedge Size 1-2 15mm
71423078	LEGION Revision/Hinge Full Stepped Tibial Wedge Size 3-4 15mm
71423079	LEGION Revision/Hinge Full Stepped Tibial Wedge Size 5-6 15mm
71423080	LEGION Revision/Hinge Full Stepped Tibial Wedge Size 7-8 15mm

LEGION Hinge Distal Femoral Wedges

Cat. No.	Description
71422103	LEGION Hinge Distal Femoral Wedge Size 3 20mm
71422104	LEGION Hinge Distal Femoral Wedge Size 4 20mm
71422105	LEGION Hinge Distal Femoral Wedge Size 5 20mm
71422106	LEGION Hinge Distal Femoral Wedge Size 6 20mm
71422107	LEGION Hinge Distal Femoral Wedge Size 7 20mm
71422153	LEGION Hinge Distal Femoral Wedge Size 3 5mm
71422154	LEGION Hinge Distal Femoral Wedge Size 3 10mm
71422155	LEGION Hinge Distal Femoral Wedge Size 3 15mm
71422156	LEGION Hinge Distal Femoral Wedge Size 4 5mm
71422157	LEGION Hinge Distal Femoral Wedge Size 4 10mm
71422158	LEGION Hinge Distal Femoral Wedge Size 4 15mm
71422159	LEGION Hinge Distal Femoral Wedge Size 5 5mm
71422161	LEGION Hinge Distal Femoral Wedge Size 5 10mm
71422162	LEGION Hinge Distal Femoral Wedge Size 5 15mm
71422163	LEGION Hinge Distal Femoral Wedge Size 6 5mm
71422164	LEGION Hinge Distal Femoral Wedge Size 6 10mm
71422165	LEGION Hinge Distal Femoral Wedge Size 6 15mm
71422166	LEGION Hinge Distal Femoral Wedge Size 7 5mm
71422167	LEGION Hinge Distal Femoral Wedge Size 7 10mm
71422168	LEGION Hinge Distal Femoral Wedge Size 7 15mm

LEGION® Tibial Cones Short

Cat. No.	Description
71935386	LEGION Tibial Cone 18 Short
71935387	LEGION Tibial Cone 20 Short
71935388	LEGION Tibial Cone 22 Short
71935389	LEGION Tibial Cone 24 Short
71935390	LEGION Tibial Cone 26 Short
71935391	LEGION Tibial Cone 28 Short
71935392	LEGION Tibial Cone 30 Short

LEGION Tibial Cones Long

Cat. No.	Description
71935393	LEGION Tibial Cone 18 Long
71935394	LEGION Tibial Cone 20 Long
71935395	LEGION Tibial Cone 22 Long
71935396	LEGION Tibial Cone 24 Long
71935397	LEGION Tibial Cone 26 Long
71935398	LEGION Tibial Cone 28 Long
71935399	LEGION Tibial Cone 30 Long

LEGION Femoral Cones

Cat. No.	Description
71935400	LEGION Femoral Cone 18mm Left
71935401	LEGION Femoral Cone 20mm Left
71935402	LEGION Femoral Cone 22mm Left
71935403	LEGION Femoral Cone 24mm Left
71935404	LEGION Femoral Cone 26mm Left
71935405	LEGION Femoral Cone 28mm Left
71935406	LEGION Femoral Cone 30mm Left
71935407	LEGION Femoral Cone 18mm Right
71935408	LEGION Femoral Cone 20mm Right
71935409	LEGION Femoral Cone 22mm Right
71935410	LEGION Femoral Cone 24mm Right
71935411	LEGION Femoral Cone 26mm Right
71935412	LEGION Femoral Cone 28mm Right
71935413	LEGION Femoral Cone 30mm Right

LEGION Hinge Accessories

Cat. No.	Description
Bolt - Sleeve	
71421385	LEGION Hinge Tibial Baseplate Size 2 Left
71421386	LEGION Hinge Tibial Baseplate Size 3 Left
71421387	LEGION Hinge Tibial Baseplate Size 4 Left
71421388	LEGION Hinge Tibial Baseplate Size 5 Left
71421389	LEGION Hinge Tibial Baseplate Size 7 Left

Link Assembly

71421631	LEGION Hinge Link Assembly Size 2-5 Femoral
71421632	LEGION Hinge Link Assembly Size 6-7 Femoral

Axle Femur, Hyperextension Step with Axle Plugs and Axle Plugs

71421648	LEGION Hinge Hyperextension Step with Axle Plug
71421932	LEGION Hinge Axle Plugs
71421934	LEGION Hinge Axle Size 3 Femur
71421935	LEGION Hinge Axle Size 4 Femur
71421936	LEGION Hinge Axle Size 5 Femur
71421938	LEGION Hinge Axle Size 7 Femur

LEGION OXINIUM® Hinge Threaded Axles*

Cat. No.	Description
71434390	LEGION OXINIUM Hinge Replacement Kit
71935254	LEGION OXINIUM Hinge Threaded Axle Size 2 Femur
71935255	LEGION OXINIUM Hinge Threaded Axle Size 3 Femur
71935256	LEGION OXINIUM Hinge Threaded Axle Size 4 Femur
71935257	LEGION OXINIUM Hinge Threaded Axle Size 5 Femur
71935258	LEGION OXINIUM Hinge Threaded Axle Size 6 Femur
71935259	LEGION OXINIUM Hinge Threaded Axle Size 7 Femur

* Material availability varies based on market access.

LEGION® Hinge Guided Motion Locking Screws

Cat. No.	Description
71421931	LEGION Hinge Guided Motion Locking Screw

LEGION Locking Set Screw

Cat. No.	Description
71424228	LEGION Locking Set Screw

LEGION Hinge Distal Femoral Wedge Screw

Cat. No.	Description
71421636	LEGION Hinge Distal Femoral Wedge Screw 5mm
71421637	LEGION Hinge Distal Femoral Wedge Screw 10mm
71421638	LEGION Hinge Distal Femoral Wedge Screw 15mm
71421639	LEGION Hinge Distal Femoral Wedge Screw 20mm

LEGION Tibial Wedge Screw

Cat. No.	Description
71423097	Tibial Wedge Screw

LEGION Tibial Wedge Lug

Cat. No.	Description
71934237	LEGION Tibial Wedge Lug 10mm
71934238	LEGION Tibial Wedge Lug 15mm

LEGION Hinge Guided Motion Inserts

Cat. No.	Description
71423341	LEGION Hinge Guided Motion Insert 11mm Size 2-3 Left
71423342	LEGION Hinge Guided Motion Insert 11mm Size 2-3 Right
71423343	LEGION Hinge Guided Motion Insert 13mm Size 2-3 Left
71423344	LEGION Hinge Guided Motion Insert 13mm Size 2-3 Right
71423345	LEGION Hinge Guided Motion Insert 15mm Size 2-3 Left
71423346	LEGION Hinge Guided Motion Insert 15mm Size 2-3 Right
71423347	LEGION Hinge Guided Motion Insert 18mm Size 2-3 Left
71423348	LEGION Hinge Guided Motion Insert 18mm Size 2-3 Right
71423349	LEGION Hinge Guided Motion Insert 21mm Size 2-3 Left
71423351	LEGION Hinge Guided Motion Insert 21mm Size 2-3 Right
71423352	LEGION Hinge Guided Motion Insert 11mm Size 4-5 Left
71423353	LEGION Hinge Guided Motion Insert 11mm Size 4-5 Right
71423354	LEGION Hinge Guided Motion Insert 13mm Size 4-5 Left
71423355	LEGION Hinge Guided Motion Insert 13mm Size 4-5 Right
71423356	LEGION Hinge Guided Motion Insert 15mm Size 4-5 Left
71423357	LEGION Hinge Guided Motion Insert 15mm Size 4-5 Right
71423358	LEGION Hinge Guided Motion Insert 18mm Size 4-5 Left
71423359	LEGION Hinge Guided Motion Insert 18mm Size 4-5 Right
71423361	LEGION Hinge Guided Motion Insert 21mm Size 4-5 Left
71423362	LEGION Hinge Guided Motion Insert 21mm Size 4-5 Right
71423363	LEGION Hinge Guided Motion Insert 11mm Size 6-7 Left
71423364	LEGION Hinge Guided Motion Insert 11mm Size 6-7 Right
71423365	LEGION Hinge Guided Motion Insert 13mm Size 6-7 Left
71423366	LEGION Hinge Guided Motion Insert 13mm Size 6-7 Right
71423367	LEGION Hinge Guided Motion Insert 15mm Size 6-7 Left
71423368	LEGION Hinge Guided Motion Insert 15mm Size 6-7 Right
71423369	LEGION Hinge Guided Motion Insert 18mm Size 6-7 Left
71423371	LEGION Hinge Guided Motion Insert 18mm Size 6-7 Right
71423372	LEGION Hinge Guided Motion Insert 21mm Size 6-7 Left
71423373	LEGION Hinge Guided Motion Insert 21mm Size 6-7 Right

LEGION® Hinge Loaner Kits*

Cat. No.	Description
8567	LEGION Hinge Right Instrument Set
8566	LEGION Hinge Left Instrument Set
9461	LEGION Hinge Right Femoral and Tibial Implant Set
9463	LEGION Hinge Right Guided Motion Insert Set
9460	LEGION Hinge Left Femoral and Tibial Implant Set
9462	LEGION Hinge Left Guided Motion Insert Set
9464	LEGION Hinge Wedge Set
8759	LEGION Hinge Size 7 Left Instrument Set
8760	LEGION Hinge Size 7 Right Instrument Set
9627	LEGION Hinge Size 7 Left Implant Set
9628	LEGION Hinge Size 7 Right Implant Set
9466	LEGION Hinge Rebuild Kit Implants (link replacement)

*US loaner kits

When ordering a LEGION Hinge set, the LEGION Hinge Femoral and Tibial Wedge set, 9464 will need to be ordered per side.

LEGION Hinge is an add on to LEGION Revision and not a stand-alone set. Both LEGION Revision and Hinge instrument sets must be present for each case.

LEGION OXINIUM® Hinge System**

Set No.	Description	Loaner Kit No.
71422150	LEGION OXINIUM Hinge Left implant Set	9436
71422140	LEGION OXINIUM Hinge Right implant Set	9435
71434390	LEGION OXINIUM Hinge Replacement Kit	9437

LEGION Hinge Outlier Sets**

Cat. No.	Description
71421390	LEGION CoCr Hinge Size 6 Left Implant Set
71422170	LEGION CoCr Hinge Size 6 Right Implant Set
71434370	LEGION Hinge Size 6-7 Right Retrofit Set
71434380	LEGION Hinge Size 6-7 Left Retrofit Set

** Availability varies based on market access

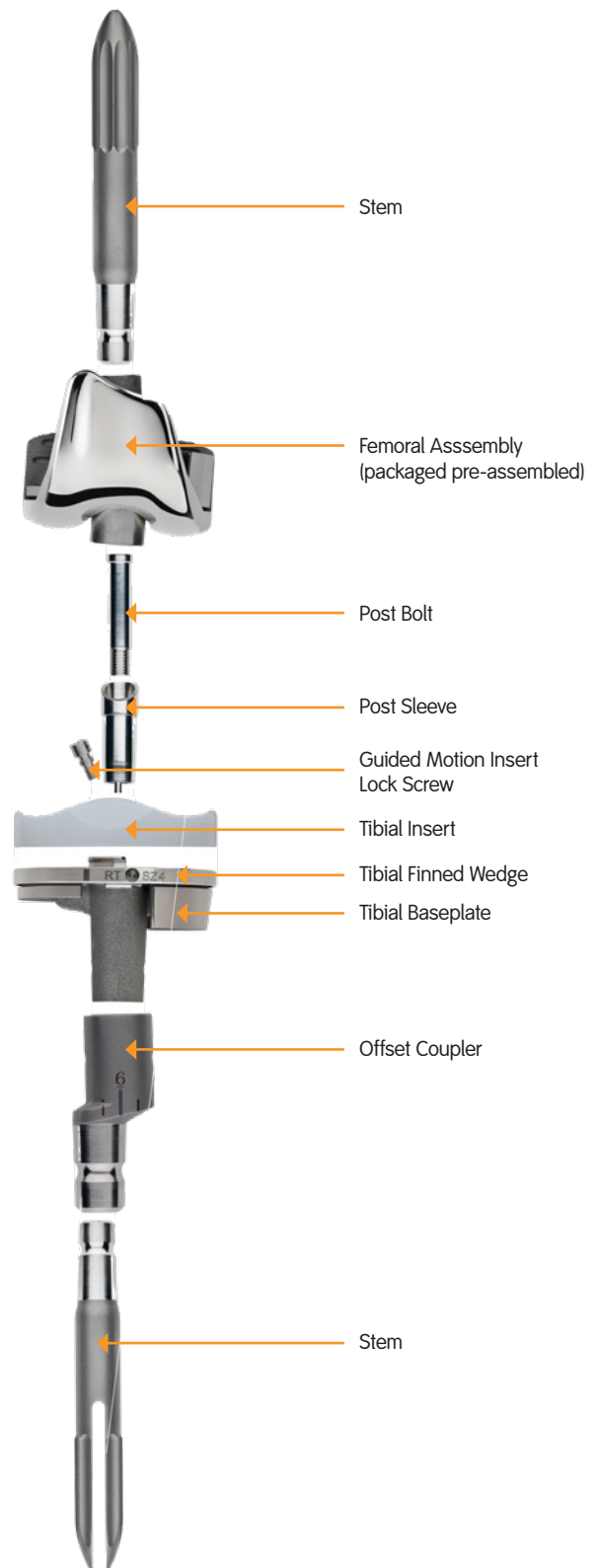
Note: The LEGION OXINIUM HK System requires the ordering/use of:

LEGION Hinge Size 6-7 Retrofit Sets (71434370 & or 71434380) in combination with the LEGION HK Rebuild Kit Implants (link replacement) loaner kit: 9466

LEGION[◊] HK Construct

Recommended Combination

Femoral	Insert	
LEGION HK Femoral Assembly	LEGION HK Guided-Motion Insert	
Tibial Baseplate	Patella	Required Accessories
LEGION HK Tibial Baseplate	GENESIS [◊] II Round Resurfacing GENESIS II Oval Resurfacing GENESIS II Biconvex Patella	LEGION HK Bolt and Sleeve LEGION HK Link Assembly* LEGION HK Femur Axle* LEGION HK Hyperextension Stop with Axle Plugs* LEGION HK Axle Plugs** LEGION HK Guided-Motion Locking Screw*



* Required Accessory Components are supplied with the main implant but can also be provided separately

** Axle Plugs are provided with the LEGION Hinge Hyperextension Stop but can also be provided separately

Accessory and Optional Component Compatibility

	LEGION HK Femoral Assembly	LEGION HK Guided-Motion Insert	LEGION HK Tibial Baseplate
Required Accessory	<p>LEGION HK Bolt and Sleeve</p> <p>LEGION HK Link Assembly*</p> <p>LEGION HK Femur Axle*</p> <p>LEGION HK Hyperextension Stop with Axle Plugs*</p> <p>LEGION HK Axle Plugs**</p>	<p>LEGION HK Guided-Motion Locking Screw*</p>	<p>LEGION HK Bolt and Sleeve</p>
Optional Component	<p>LEGION HK Distal Femoral Wedge</p> <p>LEGION HK Distal Femoral Wedge Screw</p> <p>LEGION Locking Set Screw</p> <p>LEGION Femoral Cone</p> <p>LEGION Press-fit Stems</p> <p>LEGION Cemented Stems</p> <p>LEGION Stem Extensions</p> <p>LEGION Offset Couplers</p> <p>LEGION Offset Couplers Angled</p> <p>LEGION Male-Male Offset Couplers</p>		<p>LEGION HK Guided-Motion Locking Screw</p> <p>LEGION RK/HK Hemi-Stepped Tibial Wedge</p> <p>LEGION RK/HK Full-Stepped Tibial Wedge</p> <p>LEGION Tibial Wedge Lug</p> <p>LEGION Tibial Wedge Screw</p> <p>LEGION Press-fit Stems</p> <p>LEGION Cemented Stems</p> <p>LEGION Stem Extensions</p> <p>LEGION Locking Set Screw</p> <p>LEGION Tibial Cones</p> <p>LEGION Offset Couplers</p> <p>LEGION Offset Couplers Angled</p> <p>LEGION Male-Male Offset Couplers</p>

* Required Accessory Components are supplied with the main implant but can also be provided separately

** Axle Plugs are provided with the LEGION Hinge Hyperextension Stop but can also be provided separately

Compatibility Table

LEGION [®] HK Component	Compatible Component	Size
LEGION HK Femoral Assembly	LEGION HK Guided-Motion Insert	2-7, 11 - 21 mm LT/RT
	GENESIS [®] II Round Resurfacing Patella	26 – 41 mm
	GENESIS II Oval Resurfacing Patella	29 – 41 mm
	GENESIS II Biconvex Patella	23 – 32 mm
	LEGION HK Bolt and Sleeve	11 – 21 mm
	LEGION HK Link Assembly*	Size 2-5 and Size 6-7
	LEGION HK Femur Axle*	Size 3-5 and 7
	LEGION HK Hyperextension Stop with Axle Plugs*	N/A
	LEGION HK Axle Plugs**	N/A
	LEGION HK Distal Femoral Wedges	Size 3-7, 5 – 20 mm
	LEGION HK Distal Femoral Wedge Screw	5 – 20 mm
	LEGION Locking Set Screw	N/A
	LEGION Femoral Cone	18 – 30 mm LT/RT
	LEGION Press-fit Stems	9 – 24 mm x 120 mm 9 – 24 mm x 160 mm Straight - 10 – 24 mm x 220 mm Bowed - 10 – 24 mm x 220 mm Bowed - 10 – 24 mm x 280 mm
	LEGION Cemented Stems Straight	10 – 20 mm x 120 mm 10 – 20 mm x 160 mm
	LEGION Stem Extensions	10 – 14 x 80
	LEGION Offset Couplers	2 – 6 mm
	LEGION Offset Couplers Angled	N/A
LEGION Male-Male Offset Couplers	2 – 6 mm	
LEGION HK Guided-Motion Insert	LEGION HK Femoral Assembly	Size 3-5 and 7 LT/RT
	LEGION HK Tibial Baseplate	Size 2-5 and 7 LT/RT
	LEGION HK Guided-Motion Locking Screw*	N/A

* Required Accessory Components are supplied with the main implant but can also be provided separately

** Axle Plugs are provided with the LEGION Hinge Hyperextension Stop but can also be provided separately

LEGION[◇] HK Construct *continued*

Compatibility Table

LEGION HK Component	Compatible Component	Size
LEGION HK Tibial Baseplate	LEGION HK Guided-Motion Insert	Size 2-7, 11 – 21 mm LT/RT
	LEGION HK Bolt and Sleeve	11 - 21 mm
	LEGION HK Guided-Motion Locking Screw	N/A
	LEGION RK/HK Hemi-Stepped Tibial Wedge	Size 1-8, 5 - 15 mm LL/RM Size 1-8, 5 - 15 mm LM/RL
	LEGION RK/HK Full-Stepped Tibial Wedge	Size 1-8, 10 and 15 mm
	LEGION Locking Set Screw	N/A
	Tibial Wedge Screw	N/A
	LEGION Tibial Wedge Lug	10 and 15 mm
	LEGION Tibial Cone	18-30 mm, Short/Long
	LEGION Press-fit Stems	9 – 24 mm x 120 mm 9 – 24 mm x 160 mm Straight - 10 – 24 mm x 220 mm Bowed - 10 – 24 mm x 220 mm 10 – 24 mm x 280 mm
	LEGION Cemented Stems Straight	10 – 20 mm x 120 mm 10 – 20 mm x 160 mm
	LEGION Stem Extensions	10 – 14 mm x 80 mm
	LEGION Offset Couplers Angled	N/A
	LEGION Offset Couplers	2 – 6 mm
LEGION Male-Male Offset Couplers	2 – 6 mm	

Products may not be available in all markets because product availability is subject to the regulatory and/or medical practices in individual markets.
Please contact your Smith & Nephew representative or distributor if you have questions about the availability of Smith & Nephew products in your area.

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