Discovery™
Elbow System

POLYETHYLENE EXCHANGE

SURGICAL TECHNIQUE

Lima Corporate
Orthopaedic motion

limacorporate.com

One Surgeon. One Patient.®

Over 1 million times per year, Biomet helps one surgeon provide personalized care to one patient.

The science and art of medical care is to provide the right solution for each individual patient. This requires clinical mastery, a human connection between the surgeon and the patient, and the right tools for each situation.

At Biomet, we strive to view our work through the eyes of one surgeon and one patient. We treat every solution we provide as if it's meant for a family member.

Our approach to innovation creates real solutions that assist each surgeon in the delivery of durable personalized care to each patient, whether that solution requires a minimally invasive surgical technique, advanced biomaterials or a patient-matched implant.

When one surgeon connects with one patient to provide personalized care, the promise of medicine is fulfilled.

DISCOVERY™ ELBOW POLYETHYLENE EXCHANGE
Preoperative Planning\Bearing Removal

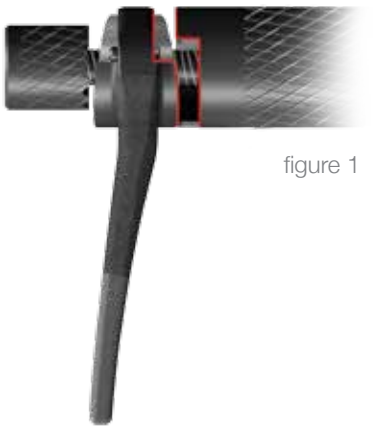

figure 1

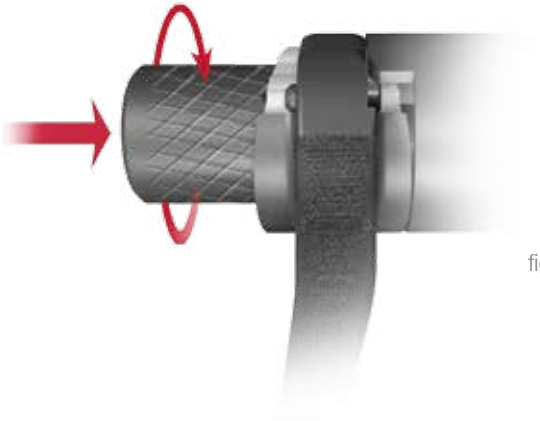

figure 2

PREOPERATIVE PLANNING

Place two Ulna Bearing Revision kits (part number 114800) in a freezer for a minimum of three hours. Freezing causes the bearing to constrict, making it easier to insert into the ulna ring. The temperature should be between -13° F and 14° F (-25° C and -10° C). A lower freezer temperature will increase the handling time of the bearing. Do not remove the bearing from the freezer until ready for assembly, as it will begin to expand immediately and reach full expansion within two minutes of removal. The second bearing kit should remain in the freezer as reserve.

Caution: Read through the entire bearing insertion kit technique prior to removing bearing from the freezer.

BEARING REMOVAL

Insert the threaded end of the bearing removal tool through the center hole of the ulna component. Push the T-handle toward the ulna component as far as possible. If necessary, turn the T-handle to allow the threaded shaft to pass through the bearing. The ledge of the ulna component should fit into the recess on the body of the bearing removal tool (Figure 1). With the jagged end toward the polyethylene, tighten the end cap onto the bearing removal tool (Figure 2).

This brochure is presented to demonstrate the surgical technique of Hill Hastings II, M.D. Biomet, as the manufacturer of this device, does not practice medicine and does not recommend this device or technique. Each surgeon is responsible for determining the appropriate device and technique to utilize on each individual patient.

DISCOVERY™ ELBOW POLYETHYLENE EXCHANGE

Bearing Removal \New Bearing Insertion

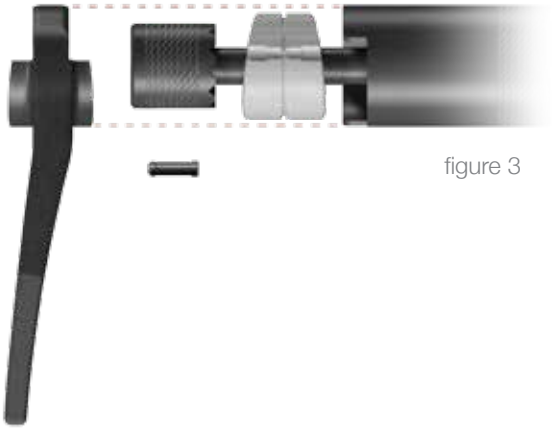

figure 3

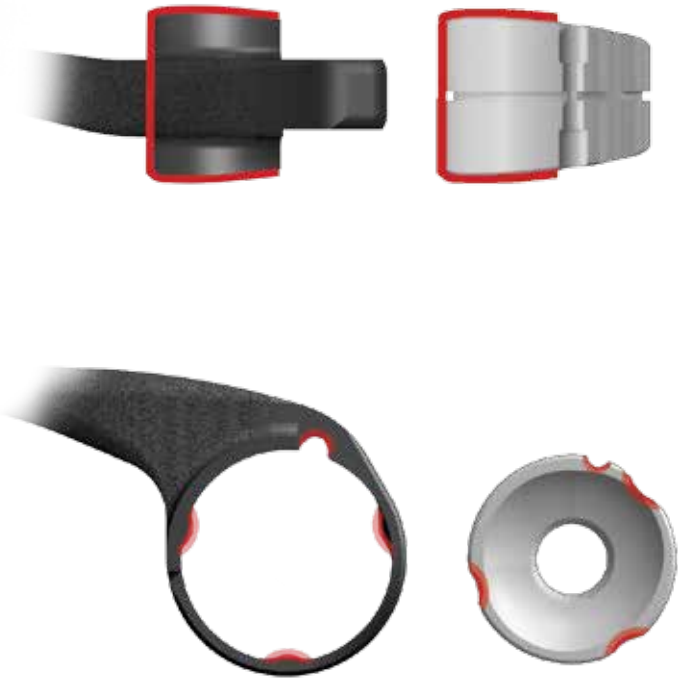

figure 4

BEARING REMOVAL (CONT.)

While holding the body of the removal tool, rotate the T-handle clockwise. The polyethylene will be pulled from within the ulna component onto the threaded shaft of the removal tool. Continue rotating until the polyethylene is removed from the ulna stem and the locking pin falls free (Figure 3). Discard the pin and polyethylene; irrigate and remove any small polyethylene particles

NEW BEARING INSERTION

Remove one ulna bearing revision kit from the freezer. The widest portion of the bearing should face toward the widest portion of the ulna ring (Figure 4). Locate the four notches on the outer edge of the bearing and align the cylindrical notch (pin groove) posteriorly.

Align the three shallow notches in the bearing with the

Figure 5

Figure 6

Figure 7

Figure 8

three tabs inside the ulna stem ring (Figure 5). Insert the bearing into the middle of the stem ring by pushing it until the bearing freely spins/rotates. Rotate the bearing until the cylindrical notch (pin groove) aligns with the pin groove of the ulna stem (Figure 6).

OPTIONAL BEARING INSERTION METHOD

The bearing rotation tool may be used to rotate the bearing if it does not spin freely when inserted into the ulna ring.

To use, insert the tool from the lateral side of the bearing with the correct anatomic engraving facing outward, allowing the long metal tab to slide into the groove on the bearing reserved for the locking pin (Figure 7).

Place the Discovery™ screw driver through the drive hole at the end of the tool (this will aid in rotation). Rotate the bearing until the cylindrical notch (pin groove) aligns with the pin groove of the ulna stem (Figure 8). If done correctly, the long metal tab will stop against the widest portion of the ulna ring.

DISCOVERY™ ELBOW POLYETHYLENE EXCHANGE
Pin Insertion

Figure 9

Figure 10

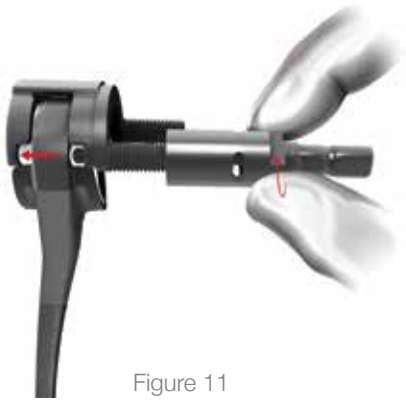

Figure 11

Figure 12

PIN INSERTION

Place the ulna pin inserter guide flush against the ulna stem, ensuring proper alignment of the guide tube with the pin hole in the ulna stem. Insert the pin with the chamfered end first (Figure 9 and 10) through the guide tube in the pin inserter.

Note: This can be accomplished from either the lateral or medial side.

Thread the pin inserter plunger over the guide tube and thread by hand until resistance is met (Figure 11). Provide downward force on the pin inserter guide to keep proper alignment.

Place the ratchet handle onto the pin inserter plunger and thread the plunger in until the pin is fully seated. The pin is seated when it is flush against the ulna stem (Figure 12).

Caution: Do **NOT** overtighten or use with power.

DISCOVERY™ ELBOW POLYETHYLENE EXCHANGE

Ordering Information

PRODUCT	PART NUMBER	DESCRIPTION	SIZE
	114800*	Discovery™ Ulna Bearing Revision Kit	-
	405908**	Driver Ratchet Handle	-
	414922**	Screwdriver Handle	2.0/2.7mm
	414923**	X-lock Standard Blade (Screwdriver Shaft)	2.4 mm
	414926**	T10 Hexalobular Drive Blade	-
	414950**	Discovery™ Bearing Removal Tool	-
	DSC-419601** DSC-419602**	Discovery™ Bearing Ulna Pin Inserter Guide Discovery™ Bearing Ulna Pin Inserter Plunger	-
	DSC-419600**	Discovery™ Bearing Rotation Tool	-

*Contains one polyethylene bearing and locking pin

**Available from loaners

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