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PLEASE REFER TO THE APPLICABLE INSTRUCTIONS FOR USE FOR THE INDICATIONS AND CONTRAINDICATIONS OF THE ASSOCIATED IMPLANT SYSTEM USED IN CONJUNCTION WITH THE INSTRUMENTS DESCRIBED IN THIS TECHNIQUE.

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**AltiVate Reverse® Humeral Component Removal**

**POLY REMOVAL**

Using the 3.2mm Drill Bit, drill a hole into the poly insert. The pilot hole should be at approximately 45° angle aimed for the lip on the inside of the implant shell.

(Figure 1) Using a power drill on ream or a hand-powered drill, thread the Insert Extractor into the 3.2mm hole (Figure 2) until the poly insert disengages from the metal cup. (Figure 3).
AltiVate Reverse® Humeral Component Removal

STEM REMOVAL - STANDARD SHELL
Insert the Standard Shell Extractor Liner into the shell and rotate to lock. (Figure 4) Assemble the Standard Head and Handle by pressing the Head onto the post of the Handle. (Figure 5) Place the head of the Standard Shell Extractor into the Standard Shell Extractor Liner and the curved blade between the implant shell and the bone. (Figure 6) Rotate the Shell Extractor so the curved blade disengages the P2™-coated shell from the surrounding bone. (Figure 7) Remove the Shell Extractor and Shell Extractor Liner from the implant.

NOTE: The curved blade is extremely sharp. Care should be taken to avoid the blade when assembling the head and handle.
STEM REMOVAL - STANDARD SHELL
Insert the Straight Osteotome into the medial osteotome slot of the implant to break off any bony ingrowth to the bone graft window. (Figure 8) Repeat with the anterior and posterior osteotome slots to disengage bone from the sub-shell P™ regions. (Figure 9) Insert the Osteotome behind the implant laterally to break off any lateral bony ingrowth to the bone graft window. (Figure 10)

Attach the Standard Trial/Implant Inserter to the stem and give the underside of the strike plate several firm taps to remove the humeral stem. (Figure 11)
AltiVate Reverse® Humeral Component Removal

STEM REMOVAL - SMALL SHELL
Insert the Small Shell Extractor Liner into the shell and rotate to lock. (Figure 12) Assemble the Head and Small Handle by pressing the Head onto the post of the Handle. (Figure 13) Place the Head of the Small Shell Extractor into the Shell Extractor Liner and the curved blade between the implant shell and the bone. (Figure 14) Rotate the Shell Extractor so the curved blade disengages the P2™-coated shell from the surrounding bone.

Insert the Straight Osteotome behind the implant laterally to break off any lateral bony ingrowth to the patch of P2. (Figure 15)

Attach the Small Trial/Implant Inserter to the stem and give the underside of the strike plate several firm taps to remove the humeral stem. (Figure 16)

NOTE: The curved blade is extremely sharp. Care should be taken to avoid the blade when assembling the head and handle.
RSP® Monoblock Humeral Component Removal

POLY REMOVAL
Using the 3.2mm Drill Bit, drill a hole into the poly insert. The pilot hole should be at approximately 45° angle aimed for the lip on the inside of the implant shell. (Figure 17)

Using a power drill on ream or a hand-powered drill, thread the Insert Extractor into the 3.2mm hole (Figure 18) until the poly insert disengages from the metal cup. (Figure 19)
RSP® Monoblock Humeral Component Removal

STEM REMOVAL
Insert the Standard Shell Extractor Liner into the shell and rotate to lock. (Figure 20) Assemble the Standard Head and Handle by pressing the Head onto the post of the Handle. (Figure 21) Place the Head of the Standard Shell Extractor into the Standard Shell Extractor Liner and the curved blade between the implant shell and the bone. (Figure 22) Rotate the Shell Extractor so the curved blade disengages the plasma-coated shell from the surrounding bone. (Figure 23) Remove the Shell Extractor and Shell Extractor Liner from the implant.

Attach the RSP® Monoblock Inserter/Extractor to the stem and give the underside of the strike plate several firm taps to remove the humeral stem. (Figure 24)

NOTE: The RSP Monoblock Inserter/Extractor is found in the RSP Monoblock instrument set.
RSP® Humeral Component Removal

POLY REMOVAL
Using the 3.2mm Drill Bit, drill a hole into the poly insert. The pilot hole should be at approximately 45° angle aimed for the lip on the inside of the implant shell. (Figure 25)
Using a power drill on ream or a hand-powered drill, thread the Insert Extractor into the 3.2mm hole (Figure 26) until the poly insert disengages from the metal cup. (Figure 27)

SHELL REMOVAL
Disengage the Morse taper of the shell from the stem. A Cobb elevator, bone hook or osteotome applied to the medial portion of the stem/shell interface may be helpful for this step.

STEM REMOVAL
Attach the Stem Inserter/Extractor to the stem and give the underside of the strike plate several firm taps to remove the humeral stem. (Figure 28)

NOTE: A motorized burr can be used to remove the cement surrounding the proximal portion of the stem.

NOTE: The Stem Inserter/Extractor is found in the RSP® Humeral Instrument Tray
Glenoid Humeral Component Removal

**GLENOSPHERE REMOVAL**
Using the 3.5mm Hex Screwdriver, remove the Glenosphere Retaining Screw. (Figure 29) Screw the Glenoid Head Distractor into the Glenosphere until it detaches from the baseplate. (Figure 30)

**NOTE:** There are two different Glenoid Head Distractors (PN 804-03-055, PN 804-02-035). The Glenoid Head Distractor (PN 804-02-035) can only be used with the 32, 36, and 40mm diameter Glenospheres. The Glenoid Head Distractor (PN 804-03-055) can be used with all size glenospheres.

**GLENOSPHERE REMOVAL – ORIGINAL DESIGN**
If the Glenosphere does not have holes/notches on the side, find a location where there is a slight gap between the Glenosphere and Baseplate. Use a heliocoloital burr to create a hole in the Glenosphere at the identified point. Lodge a bone hook into the hole/notch in the Glenosphere, and use a footed bone tamp to disengage the Morse taper between the Glenosphere and Baseplate.

**NOTE:** These instruments are available in the Altivate Reverse® Humeral Trialing Tray and in the RSP® Humeral Tray

**BASEPLATE REMOVAL**
Using the 3.5mm Hex Screwdriver, remove the four Peripheral Screws. (Figure 31) Use the same 3.5mm Hex Screwdriver to remove the baseplate. (Figure 32)

**NOTE:** If bony ingrowth has occurred to the back of the baseplate, a curved osteotome or thin saw blade can be used to disengage the bone from the ingrowth surface.
Reference Guide

INSTRUMENT GUIDE

AltiVate Reverse® Revision Tray

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<td>1 801-01-020</td>
<td>3.2mm Drill Bit (x2)</td>
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<tr>
<td>2 804-06-073</td>
<td>Insert Extractor (x2)</td>
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<tr>
<td>3 804-06-081/-082</td>
<td>Straight Osteotome (x2)</td>
</tr>
<tr>
<td>4 804-06-076</td>
<td>Small Shell Extractor Handle (x2)</td>
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<tr>
<td>5 804-06-077</td>
<td>Small Shell Extractor Liner</td>
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<tr>
<td>6 804-06-079</td>
<td>Shell Extractor Head (x2)</td>
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<td>7 804-06-078</td>
<td>Standard Shell Extractor Handle (x2)</td>
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<td>8 804-06-080</td>
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<td>9 804-06-056</td>
<td>Standard Stem Inserter</td>
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<td>10 804-06-055, 804-06-157</td>
<td>Small Stem Inserter and Small Inserter Stem Knob</td>
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