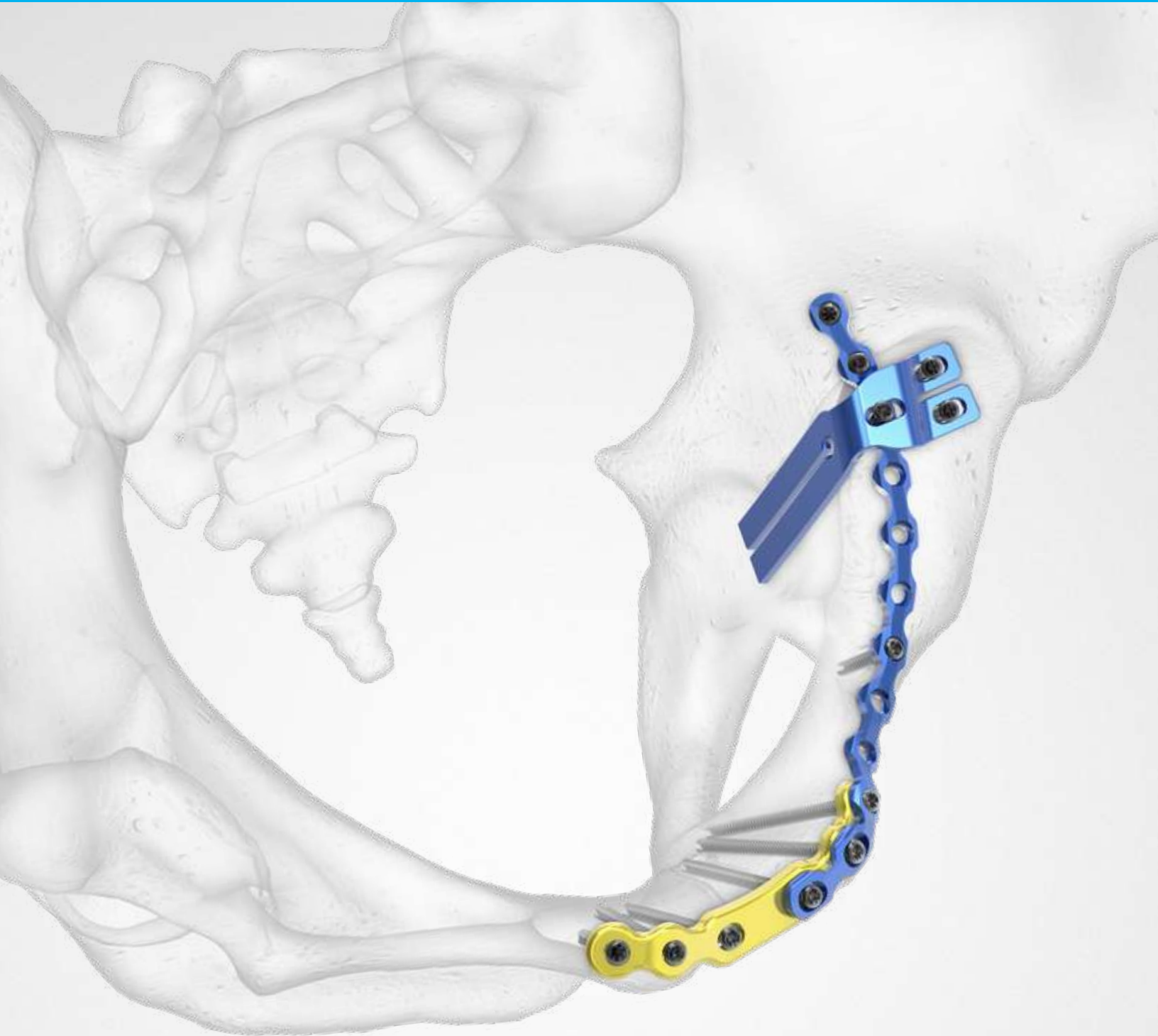


Surgical Technique



Acumed® is a global leader of innovative orthopaedic and medical solutions.



We are dedicated to developing products, service methods, and approaches that improve patient care.



Acumed® Pelvic Plating System

The Acumed Pelvic Plating System is a comprehensive set of plates, screws, and instrumentation for the treatment of pelvic ring and acetabular fractures.

Designed to treat a wide variety of challenging pelvic fractures, the plates of the Pelvic Plating System are strategically precontoured where it may save time for the surgeon, and left noncontoured in some sections to allow for buttressing of fractures. Indication-specific plates are offered, as well as reconstruction-style plates to address a variety of fracture patterns. Enhancements to traditional pelvic instrumentation are designed to simplify surgical techniques.

Indications for Use:

- ▶ Fractures, fusions, and osteotomies of the acetabulum
- ▶ Fractures, fusions, and osteotomies of the sacrum
- ▶ Fractures, fusions, and osteotomies of the ilium
- ▶ Fractures, fusions, and osteotomies of the pelvic ring
- ▶ Sacroiliac joint dislocations
- ▶ Pubic symphysis disruptions

	Definition
Warning	Indicates critical information about a potential serious outcome to the patient or the user.
Caution	Indicates instructions that must be followed in order to ensure the proper use of the device.
Note	Indicates information requiring special attention.



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System Features

Plate Overview

Quadrilateral Surface Plates

L, 70-0435 R, 70-0436



Intrapelvic Plates

5 Hole L, 70-0437

5 Hole R, 70-0438

9 Hole L, 70-0439

9 Hole R, 70-0440



Pubic Symphysis Plates

4 Hole, 70-0450



6 Hole, 70-0451

Anterior Brim Plates

12 Hole L, 70-0431

12 Hole R, 70-0432

14 Hole L, 70-0433

14 Hole R, 70-0434

System Features [continued]

Posterior Wall Acetabular Fragment Plates

Curved L, 70-0458 L, 70-0427 R, 70-0428 Curved R, 70-0459



Superior Sacroiliac Plate

4 Hole, 70-0452



Acetabular Spring Plates

2 Hole, 70-0429
3 Hole, 70-0430



3.5 mm Interlocking Reconstruction Plate

11 Hole, 70-0449



Posterior Wall Acetabular Plate

70-0426

3.5 mm Reconstruction Plates

3 Hole, 70-0441 4 Hole, 70-0442

6 Hole, 70-0443 8 Hole, 70-0444

10 Hole, 70-0445 12 Hole, 70-0446

14 Hole, 70-0447 16 Hole, 70-0448

Instrument Overview



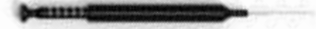
2.0 mm Quick Release Drill
(80-0318)



T8 Stick Fit Hexalobe Driver
(80-0759)



Small Ratchet Handle with Quick Release Connection
(80-0398)



Depth Gauge 6–65 mm
(80-0623)



Adjustable Handle Clamp
(80-1145)



Intrapelvic Plate Reduction Clamp
(80-1152)



Small Farabeuf Pelvic Forceps
(80-1122)



Large Farabeuf Pelvic Forceps
(80-1123)



Offset Adjustable Handle Clamp
(80-1146)



Large Bone Reduction Forceps
(80-1147)



Intrapelvic Reduction Clamp
(80-1126)



Reduction Forceps, 3.5 mm Screws
(80-1127)



T15 Stick Fit Toggling Hexalobe Driver
(80-1129)



2.8 mm Quick Release Drill, Long
(80-1130)



3.5 mm Quick Release Drill, Long
(80-1131)



3.5 mm Quick Release Flexible Drill, Long
(80-1132)



4.3 mm Quick Release Drill, Long
(80-1133)



Depth Gauge 10–150 mm
(80-1134)



Soft Tissue Protector, Long
(80-1135)



2.8 mm Drill Guide, Long
(80-1136)



3.5 mm Drill Guide, Long
(80-1137)



4.3 mm Drill Guide, Long
(80-1138)



3.5 mm Flexible Drill Guide, Long
(80-1139)



Plate Tack, Long
(80-1140)

Instrument Overview [continued]



Pelvic Plate Bending Pliers
(80-1141)



Plate Cutters
(80-1143)



Periosteal Elevator 14 mm Width, Curved
(80-1144)



Bone Hook, Large
(80-1121)



Straight Ball Spike With Impact Cap
(80-1124)



Blunt Pelvic Retractor
(80-1125)



Small Malleable Retractor
(80-1148)



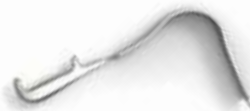
Medium Malleable Retractor
(80-1149)



Large Malleable Retractor
(80-1150)



Large Pointed Malleable Retractor
(80-1151)



Sciatic Nerve Retractor
(80-1153)



Sciatic Nerve Retractor, Long
(80-1154)



T15 Hexalobe Driver Tip, Long
(80-1561)



T15 Stick Fit Hexalobe Driver, 6 inch
(80-2087)



T15 Stick Fit Hexalobe Driver, 9 inch
(80-2088)



Plate Bender, Large
(PL-2045)



Offset Drill Guide
(PL-2095)



7 mm Bone Graft Drill Assembly
(PL-BG07)



2.0 mm/2.8 mm Thin Drill Guide
(PL-2118)



Ball Spike Crown
(80-2011)



Schanz Pin 6 mm x 190 mm
(80-2012)



.062" x 8" Single Trocar Guide Wire
(80-0413)



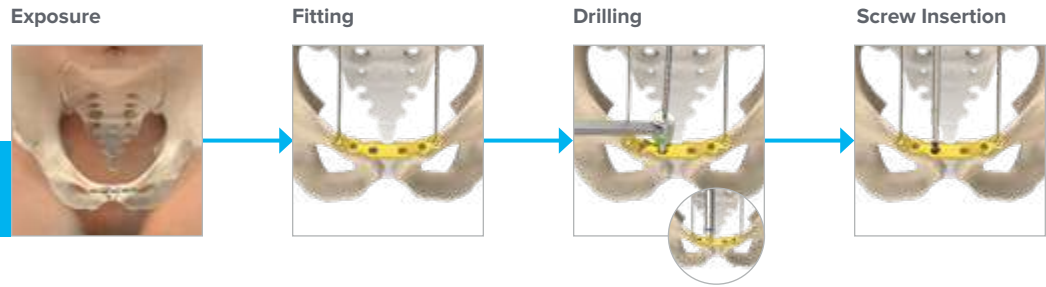
.045" x 6" ST Guide Wire
(WS-1106ST)



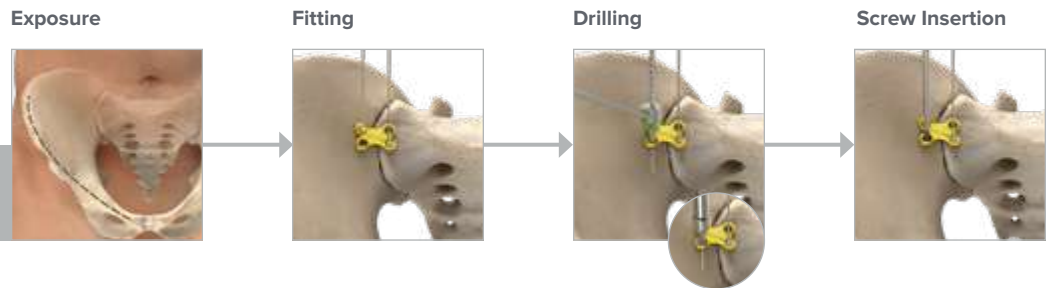
.094" x 8" Single Trocar Guide Wire
(WS-2408ST)

Surgical Technique Overview

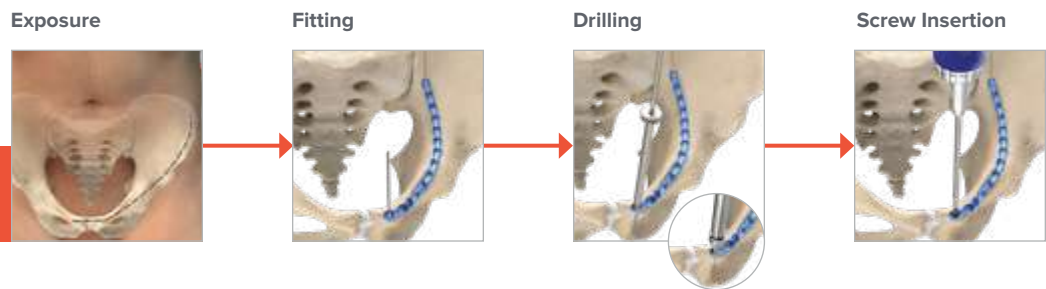
Pubic Symphysis Plate Surgical Technique



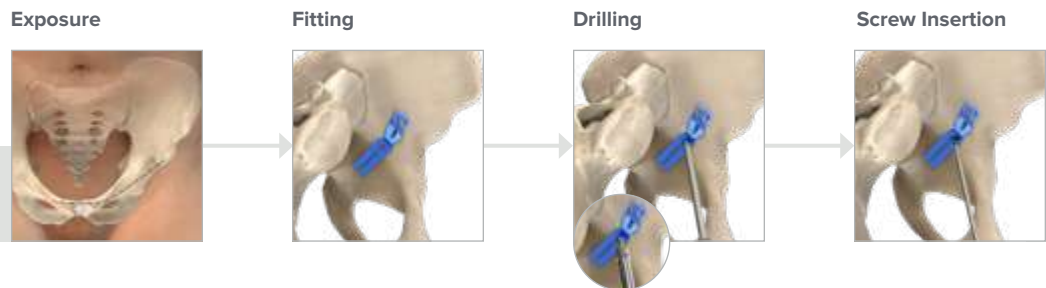
Superior Sacroiliac Plate Surgical Technique



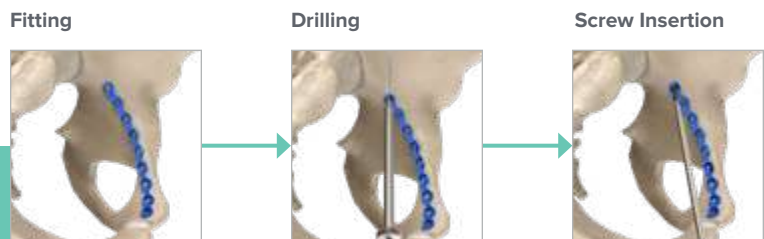
Anterior Brim and Quadrilateral Surface Plate Surgical Technique



Quadrilateral Surface Plate Surgical Technique



Intrapelvic Plate Surgical Technique



Screw Insertion



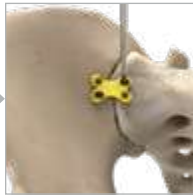
Confirmation



Drilling



Screw Insertion



Screw Insertion



Screw Insertion



Screw Insertion



Confirmation



Reduction and Placement

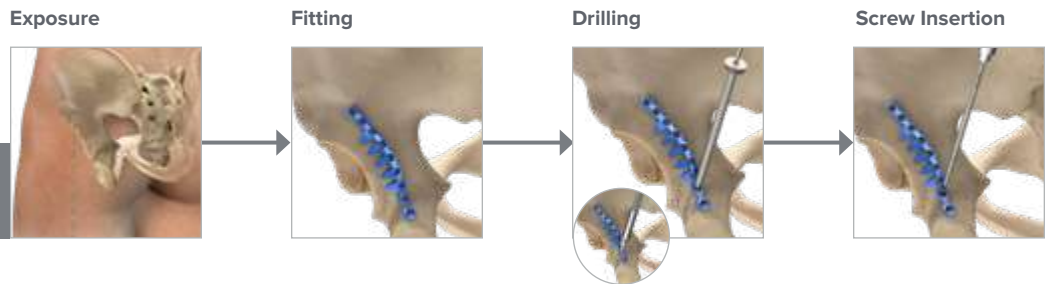


Screw Insertion

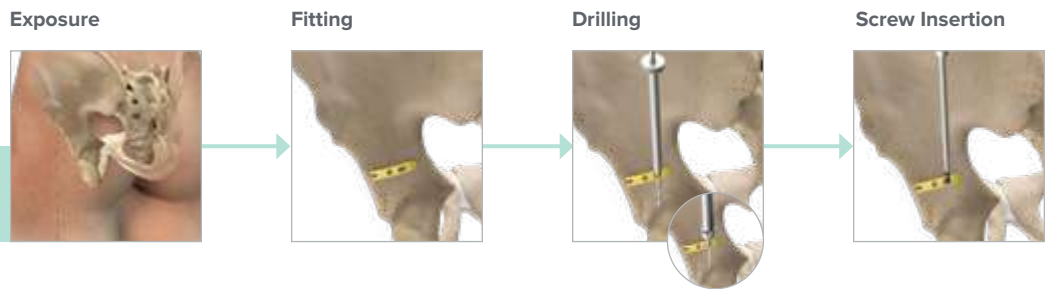


Surgical Technique Overview [continued]

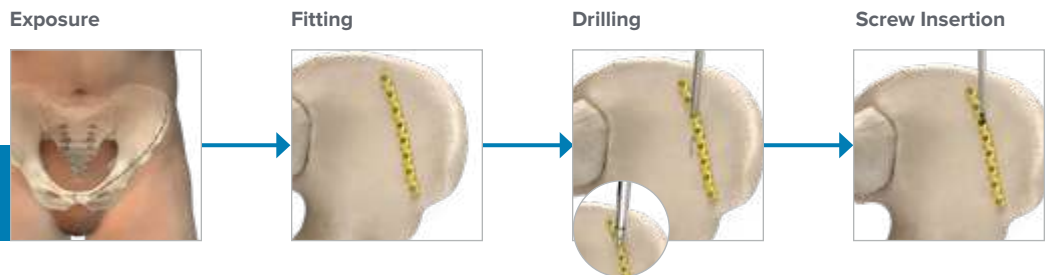
Acetabular Plate
Surgical Technique for
Posterior Wall Fractures



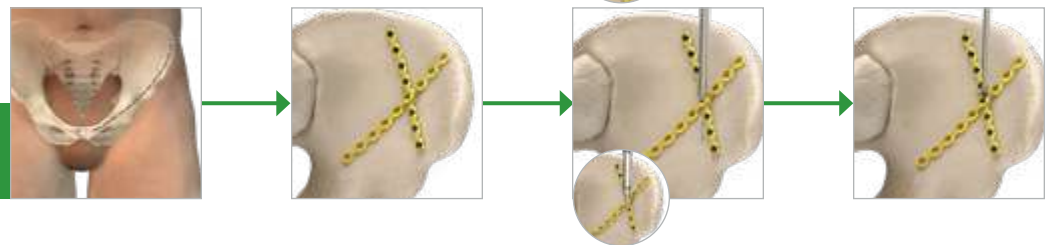
Acetabular Spring Plate
Surgical Technique for
Posterior Wall Fractures



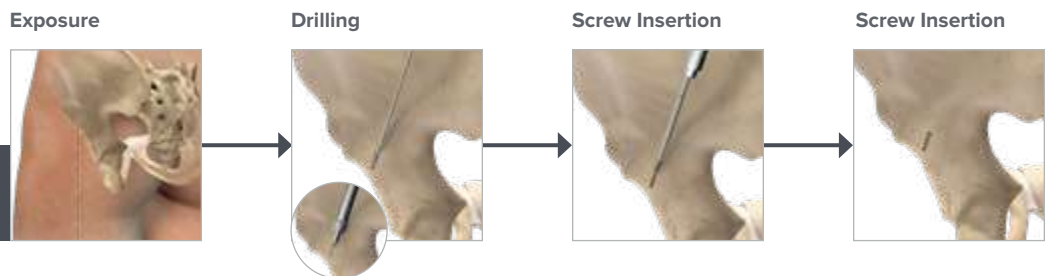
Reconstruction Plate
Surgical Technique



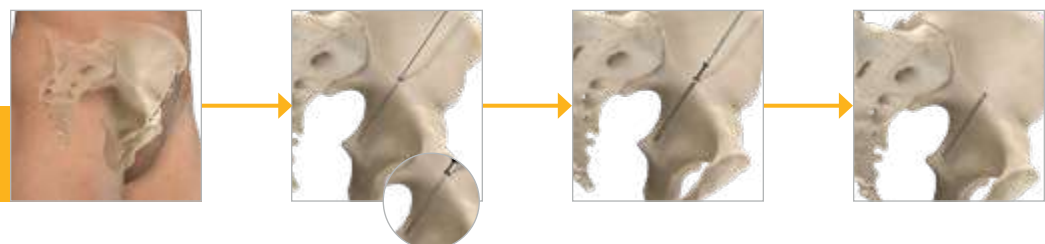
Interlocking
Reconstruction Plate
Surgical Technique

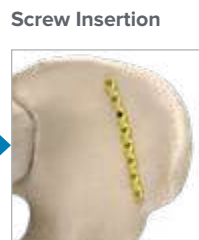
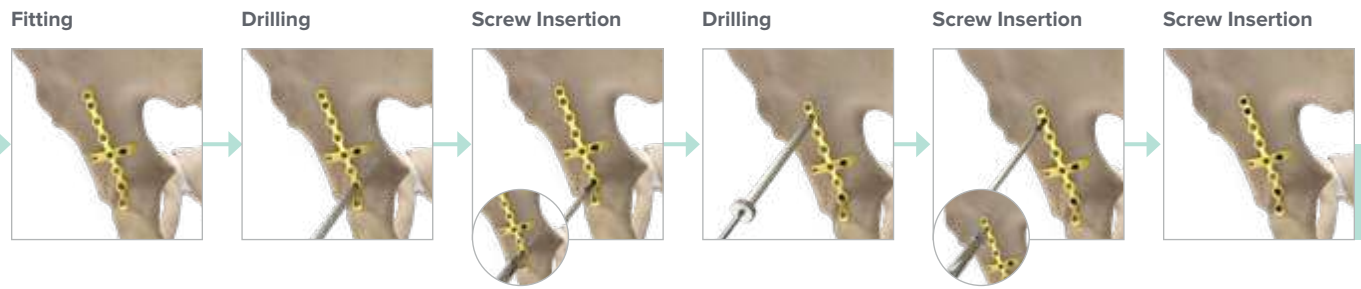
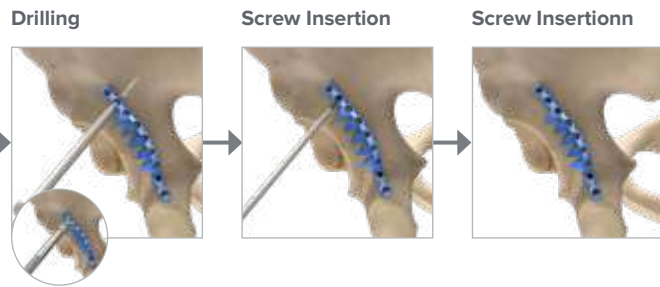


2.7 mm Nonlocking
Hexalobe Screw
Surgical Technique



4.3 mm Hexalobe
Column Screw
Surgical Technique





Pubic Symphysis Plate Surgical Technique

Figure 1



1 Exposure

Expose the pubic symphysis using a preferred surgical exposure. Reduce the pubis symphysis in preparation for plate installation.



Figure 2

2 Fitting

Test fit the Pubic Symphysis Plate (70-0450 or 70-0451). Make any final adjustments to the plate contour using the Large Plate Bender (PL-2045). Provisionally attach the plate using Long Plate Tacks (80-1140).

Caution: If bending the plate, please observe the following:

- ▶ Place bends in plate sections which do not have holes
- ▶ Use several small bends to achieve a smooth overall bend
- ▶ Do not bend, unbend, and re-bend more than once



Pubic Symphysis Plate
(70-0450 or 70-0451)



Plate Bender, Large
(PL-2045)



Plate Tack, Long
(80-1140)

Pubic Symphysis Plate Surgical Technique [continued]

3 Drilling

With reduction confirmed, drill using the 2.8 mm Quick Release Drill, Long (80-1130) and Offset Drill Guide (PL-2095) through one of the dynamic compression slots on the plate. Using the Depth Gauge 10–150 mm (80-1134), determine the proper screw length and insert the proper length 3.5 mm Nonlocking Hexalobe Screw (30-0XXX).

Note: If this plate is used in conjunction with the Anterior Brim Plate, drill through the dynamic compression slot contralateral to the application of the Anterior Brim Plate.

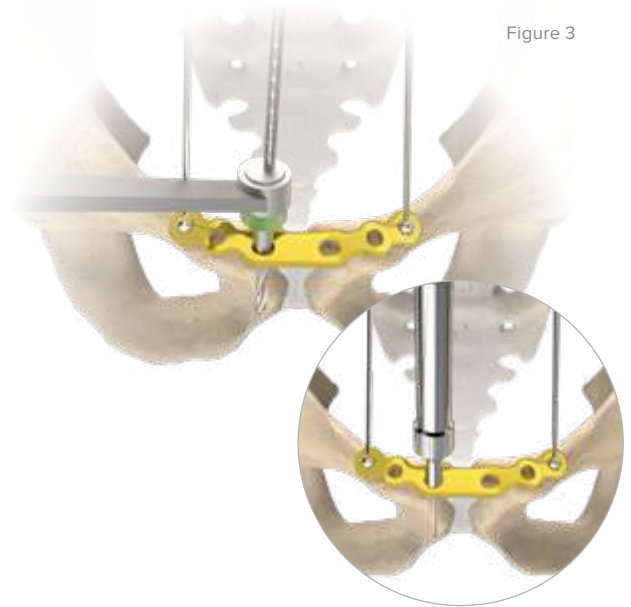


Figure 3

4 Screw Insertion

Connect the T15 Stick Fit Hexalobe Driver, 6 inch (80-2087) to the Small Ratchet Handle with Quick Release Connection (80-0398) and insert a 3.5 mm Nonlocking Hexalobe Screw (30-0XXX). Tighten the screw partially to allow for additional compression later.

Caution: Driving the screws into the plate under power could cause the screw heads to go through the plate. To avoid this, tighten screws into the plate by hand.



Figure 5



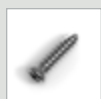
2.8 mm Quick Release Drill, Long (80-1130)



Offset Drill Guide (PL-2095)



Depth Gauge 10–150 mm (80-1134)



3.5 mm Nonlocking Hexalobe Screw (30-0XXX)



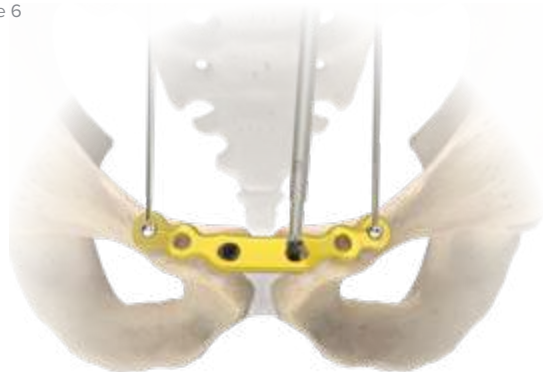
T15 Stick Fit Hexalobe Driver, 6 inch (80-2087)



Small Ratchet Handle with Quick Release Connection (80-0398)

Pubic Symphysis Plate Surgical Technique [continued]

Figure 6



5 Screw Insertion

Drill through the opposing dynamic compression slot using the 2.8 mm Quick Release Drill, Long (80-1130) and Offset Drill Guide (PL-2095). Using the Depth Gauge 10–150 mm (80-1134), determine the proper screw length and insert the proper length 3.5 mm Nonlocking Hexalobe Screw (30-0XXX). Fully seat this screw in the plate to begin compressing the pubic symphysis.

By hand, fully seat the screw you partially tightened in Step 4. This will apply additional compression across the pubic symphysis.

Caution: Driving the screws into the plate under power could cause the screw heads to go through the plate. To avoid this, tighten screws into the plate by hand.

6 Confirmation

Drill, measure, and install 3.5 mm nonlocking screws in the remaining holes of the plate, at the surgeon's discretion. Confirm all screws have been seated in the plate(s). Close the surgical site(s) using preferred techniques.

7 Optional: Removal Instructions

To extract a Pelvic Plating System plate, use the following parts to remove all screws from the plate:

3.5 mm Nonlocking Hexalobe Screws:

Either the T15 Hexalobe Driver Tip, Long (80-1561), T15 Stick Fit Hexalobe Driver, 6 Inch (80-2087), or T15 Stick Fit Hexalobe Driver, 9 Inch (80-2088) and the Small Ratchet Handle with Quick Release Connection (80-0398).

Referencing the Screw Removal Brochure (SPF10-00) may aid in implant extraction if difficulty is experienced.



Figure 7



2.8 mm Quick Release Drill, Long (80-1130)



Offset Drill Guide (PL-2095)



Depth Gauge 10–150 mm (80-1134)



3.5 mm Nonlocking Hexalobe Screw (30-0XXX)



T15 Hexalobe Driver Tip, Long (80-1561)



T15 Stick Fit Hexalobe Driver, 6 Inch (80-2087)



T15 Stick Fit Hexalobe Driver, 9 Inch (80-2088)



Small Ratchet Handle with Quick Release Connection (80-0398)

Superior Sacroiliac Plate Surgical Technique

1 Exposure

Expose the superior portion of the sacroiliac joint using a preferred surgical exposure. Reduce the sacroiliac joint in preparation for plate installation.

Caution: This plate is not to act as the solitary means of fixation for a completely disrupted sacroiliac joint.

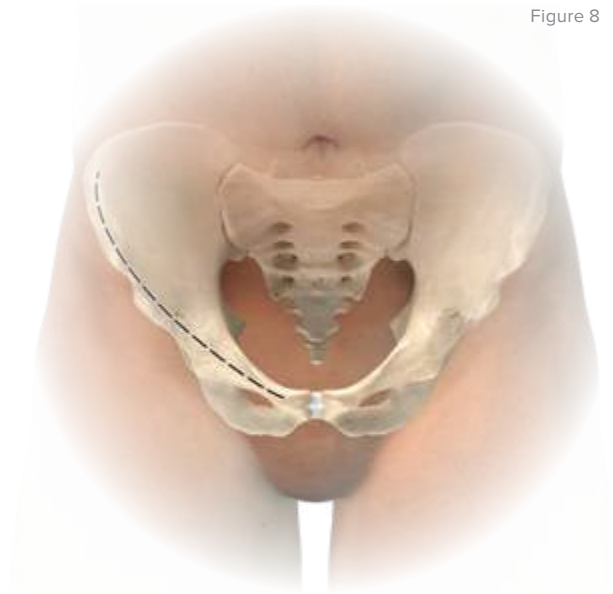


Figure 8

2 Fitting

Test fit the Superior Sacroiliac Plate, 4 Hole (70-0452). Make any final adjustments to the plate contour using the Large Plate Bender (PL-2045). Provisionally attach the plate using Long Plate Tacks (80-1140).

Caution: If bending the plate, please observe the following:

- ▶ Place bends in plate sections which do not have holes
- ▶ Use several small bends to achieve a smooth overall bend
- ▶ Do not bend, unbend, and re-bend more than once

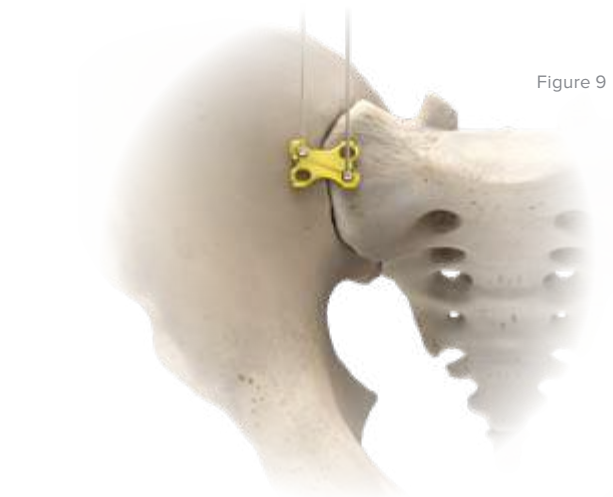


Figure 9



Superior Sacroiliac
Plate, 4 Hole
(70-0452)



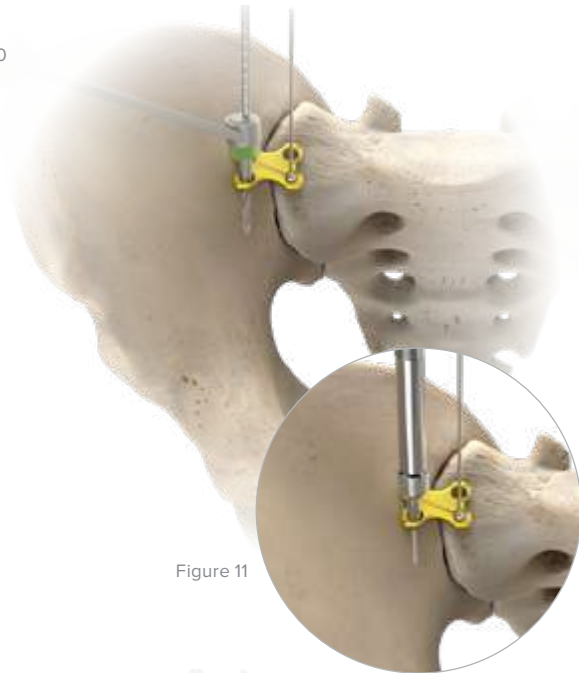
Plate Bender,
Large
(PL-2045)



Plate Tack, Long
(80-1140)

Superior Sacroiliac Plate Surgical Technique [continued]

Figure 10



3 Drilling

With reduction confirmed, drill using the 2.8 mm Quick Release Drill, Long (80-1130) and Offset Drill Guide (PL-2095) through one of the neutral slots on the plate. Utilizing the Depth Gauge 10–150 mm (80-1134), determine the proper screw length and insert the proper length 3.5 mm Nonlocking Hexalobe Screw (30-0XXX).

Figure 11

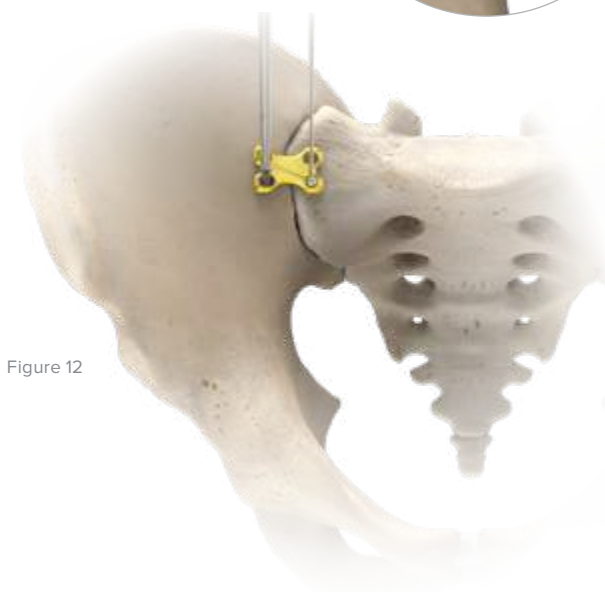


Figure 12

4 Screw Insertion

Connect the T15 Stick Fit Hexalobe Driver, 6 inch (80-2087) to the Small Ratchet Handle with Quick Release Connection (80-0398) and insert a 3.5 mm Nonlocking Hexalobe Screw (30-0XXX). Leave this screw partially tightened to allow for final plate alignment. If no further adjustments to the plate position are anticipated, fully seat the screw by hand in the neutral slot.

Caution: Driving the screws into the plate under power could cause the screw heads to go through the plate. To avoid this, tighten screws into the plate by hand.



2.8 mm Quick Release Drill, Long (80-1130)



Offset Drill Guide (PL-2095)



Depth Gauge 10–150 mm (80-1134)



3.5 mm Nonlocking Hexalobe Screw (30-0XXX)



T15 Stick Fit Hexalobe Driver, 6 inch (80-2087)



Small Ratchet Handle with Quick Release Connection (80-0398)

Superior Sacroiliac Plate Surgical Technique [continued]

5 Drilling

Drill through a hole or slot on the opposite side of the plate using the 2.8 mm Quick Release Drill, Long (80-1130) and the 2.8 mm Drill Guide, Long (80-1136). Using the Depth Gauge 10–150 mm (80-1134), determine the proper screw length and insert the proper length 3.5 mm Nonlocking Hexalobe Screw (30-0XXX).

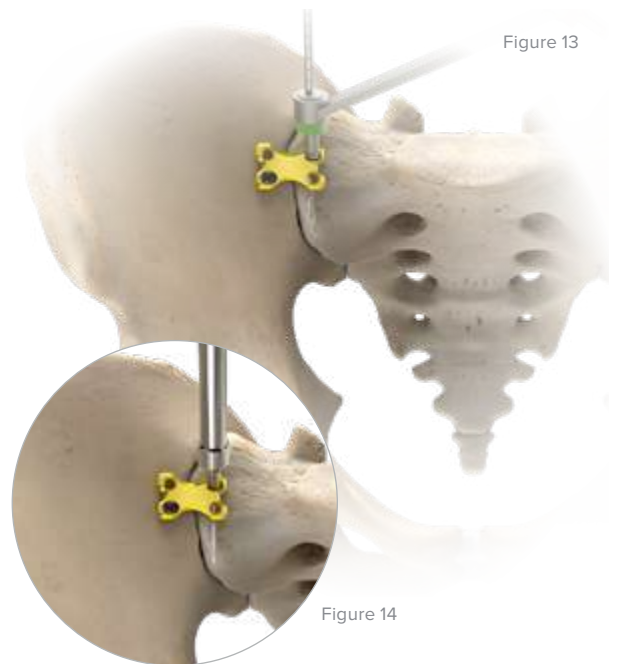


Figure 13

Figure 14

6 Screw Insertion

Using the T15 Stick Fit Hexalobe Driver, 6 inch (80-2087) and Small Ratchet Handle with Quick Release Connection (80-0398) from Step 4, insert a 3.5 mm Nonlocking Hexalobe Screw (30-0XXX). Fully seat the screw, by hand, in the plate.

Caution: Driving the screws into the plate under power could cause the screw heads to go through the plate. To avoid this, tighten screws into the plate by hand.

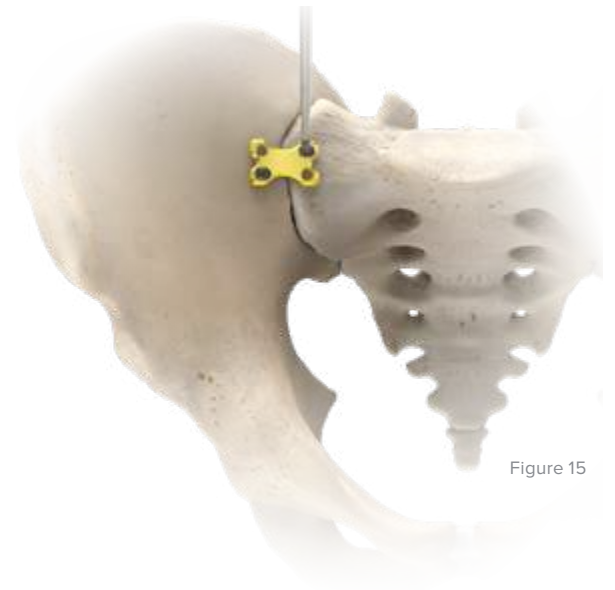


Figure 15



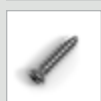
2.8 mm Quick Release Drill, Long (80-1130)



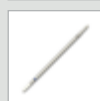
2.8 mm Drill Guide, Long (80-1136)



Depth Gauge 10–150 mm (80-1134)



3.5 mm Nonlocking Hexalobe Screw (30-0XXX)



T15 Stick Fit Hexalobe Driver, 6 inch (80-2087)



Small Ratchet Handle with Quick Release Connection (80-0398)

Superior Sacroiliac Plate Surgical Technique [continued]

Figure 16



7 Screw Insertion

Drill, measure, and install 3.5 mm Nonlocking Hexalobe Screws (30-0XXX) in the remaining holes of the plate, at the surgeon's discretion. Confirm all screws have been seated in the plate(s). Close the surgical site(s) using preferred techniques.

8 Optional: Removal Instructions

To extract a Pelvic Plating System plate, use the following parts to remove all screws from the plate:

3.5 mm Hexalobe Screws:

Either the T15 Hexalobe Driver Tip, Long (80-1561), T15 Stick Fit Hexalobe Driver, 6 Inch (80-2087), or T15 Stick Fit Hexalobe Driver, 9 Inch (80-2088) and the Small Ratchet Handle with Quick Release Connection (80-0398).

Referencing the Screw Removal Brochure (SPF10-00) may aid in implant extraction if difficulty is experienced.



3.5 mm Nonlocking Hexalobe Screw (30-0XXX)



T15 Hexalobe Driver Tip, Long (80-1561)



T15 Stick Fit Hexalobe Driver, 6 Inch (80-2087)



T15 Stick Fit Hexalobe Driver, 9 Inch (80-2088)



Small Ratchet Handle with Quick Release Connection (80-0398)

Anterior Brim and Quadrilateral Surface Plate Surgical Technique

1 Exposure

Expose the pelvic brim using a preferred surgical exposure.

Note: Reduce the acetabulum in preparation for plate installation. The Anterior Brim Plate can be used in conjunction with the Quadrilateral Surface Plate (70-0435 or 70-0436) or the 6-hole Pubic Symphysis Plate (70-0451).

If the Anterior Brim Plate (70-04XX) is to be used in conjunction with the Pubic Symphysis Plate (70-0450 or 70-0451), follow Steps 1–4 in the Pubic Symphysis Surgical Technique (see pages 10-11) prior to installing the Anterior Brim Plate.

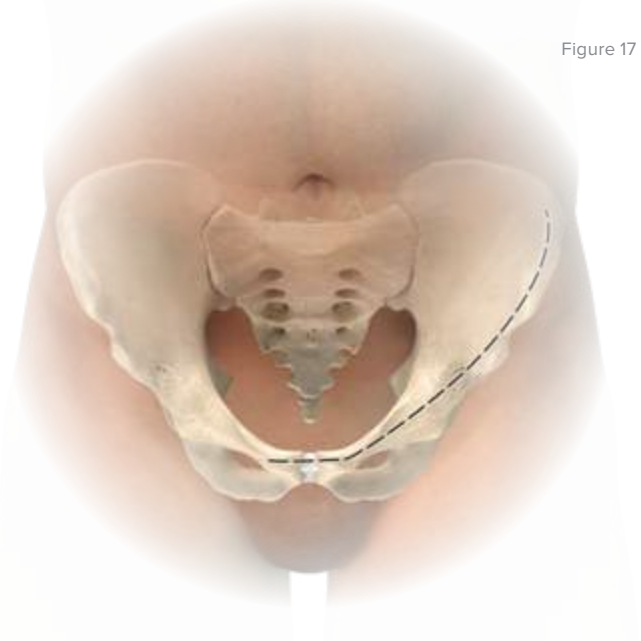


Figure 17

2 Fitting

Test fit the Anterior Brim Plate (70-043X). Make any final adjustments to the plate contour using Pelvic Plate Bending Pliers (80-1141) or a Plate Bender, Large (PL-2045). Provisionally attach the plate using Long Plate Tacks (80-1140).

Note: Plates designed for use on the left of the sagittal plane are **blue** in color and marked “left.” Plates designed for the right side of the sagittal plane are **green** in color and marked “right.”

Caution: If bending the plate, please observe the following:

- ▶ Place bends in plate sections which do not have holes
- ▶ Use several small bends to achieve a smooth overall bend
- ▶ Do not bend, unbend, and re-bend more than once
- ▶ For in-plane bending, insert the plate parallel to the bending piston. Situate the plate such that the piston is between holes. Compress the handle to bend the plate

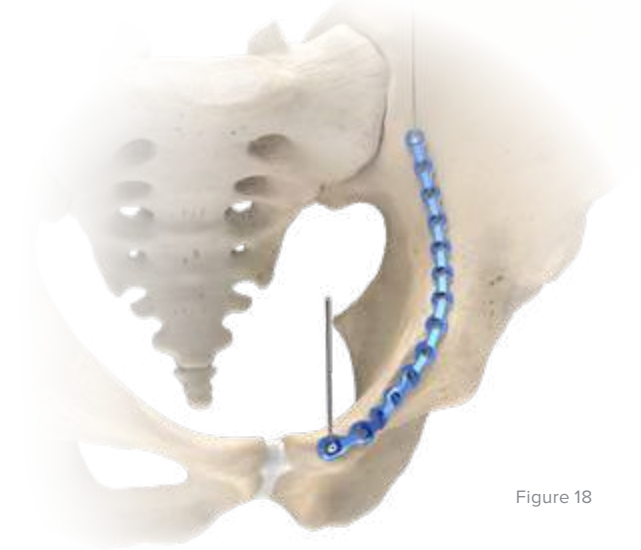


Figure 18



Anterior Brim Plate
(70-04XX)



Quadrilateral Surface Plate
(70-0435 or 70-0436)



Pubic Symphysis Plate
(70-0450 or 70-0451)



Pelvic Plate Bending Pliers
(80-1141)



Plate Bender, Large
(PL-2045)



Plate Tack, Long
(80-1140)

Anterior Brim and Quadrilateral Surface Plate Surgical Technique [continued]

Figure 19

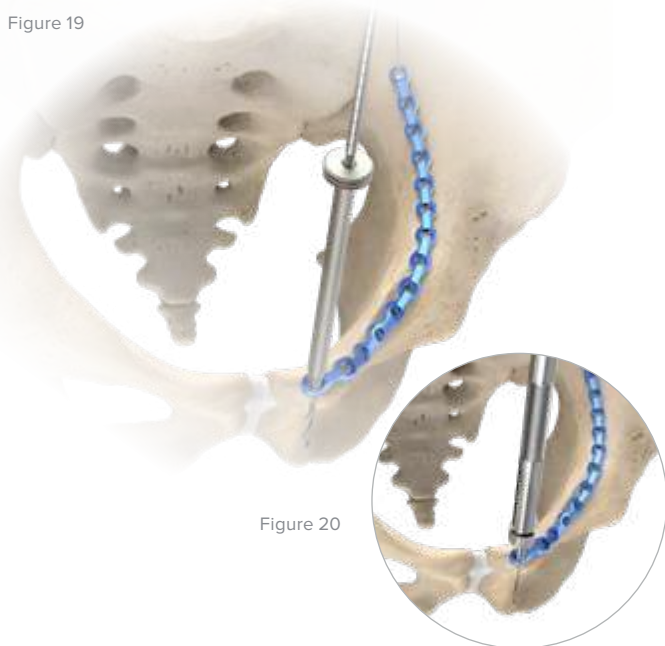
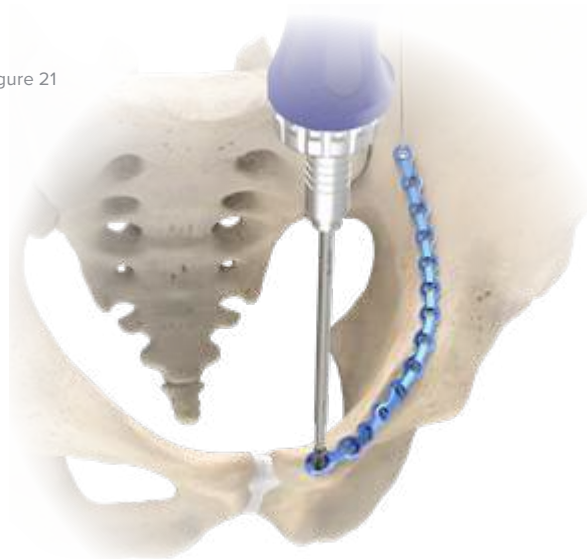


Figure 20

Figure 21



3 Drilling

With provisional reduction confirmed, drill using the 2.8 mm Quick Release Drill, Long (80-1130) and the 2.8 mm Drill Guide, Long (80-1136) through a hole in the desired location on the plate. Utilizing the Depth Gauge 10–150 mm (80-1134), determine the proper screw length and insert the proper length 3.5 mm Nonlocking Hexalobe Screw (30-0XXX).

Note: If the plate is being used in conjunction with the 6-Hole Pubic Symphysis Plate (70-0451), align a slot in the anterior end of the plate with a hole or slot in the Pubic Symphysis Plate by overlapping the plates, and drill through both.

4 Screw Insertion

Connect the T15 Stick Fit Hexalobe Driver, 6 inch (80-2087) to the Small Ratchet Handle with Quick Release Connection (80-0398) and fully seat the 3.5 mm Nonlocking Hexalobe Screw (30-0XXX) by hand. Drill, measure, and install 3.5 mm nonlocking screws in the remaining holes of the plate at the surgeon's discretion.

If the 6-Hole Pubic Symphysis Plate (70-0451) is installed in conjunction with the Anterior Brim Plate (70-043X), complete Steps 5 through 6 in the Pubic Symphysis Surgical Technique.

Caution: Driving the screws into the plate under power could cause the screw heads to go through the plate. To avoid this, tighten screws into the plate by hand.



2.8 mm Quick Release Drill, Long (80-1130)



2.8 mm Drill Guide, Long (80-1136)



Depth Gauge 10–150 mm (80-1134)



3.5 mm Nonlocking Hexalobe Screw (30-0XXX)



Pubic Symphysis Plate (70-0450 or 70-0451)



T15 Stick Fit Hexalobe Driver, 6 inch (80-2087)



Small Ratchet Handle with Quick Release Connection (80-0398)



Anterior Brim Plate (70-043X)

Anterior Brim and Quadrilateral Surface Plate Surgical Technique [continued]

5 Screw Insertion

Ensure the quadrilateral surface is properly reduced in preparation for plate installation. If using the Quadrilateral Surface Plate (70-0435 or 70-0436), test fit the plate and make any final adjustments to the plate contour using Plate Benders (PL-2045).

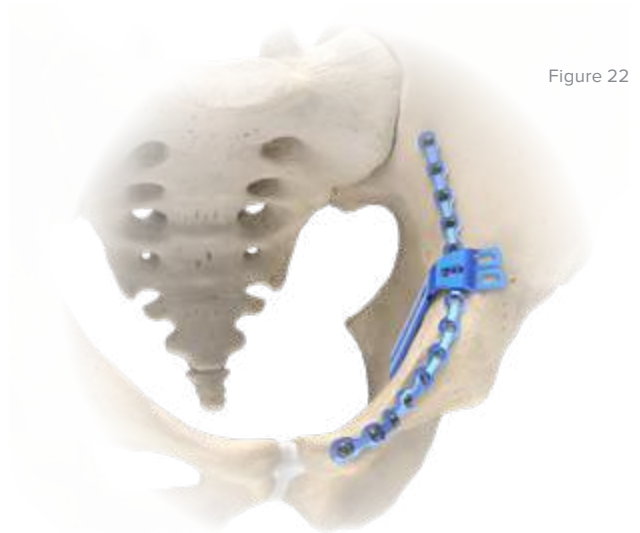


Figure 22

6 Screw Insertion

Align the dynamic compression slot in the Quadrilateral Surface Plate (70-0435 or 70-0436) with a hole in the Anterior Brim Plate (70-043X). Drill, measure, and install a 3.5 mm Nonlocking Hexalobe Screw (30-0XXX).

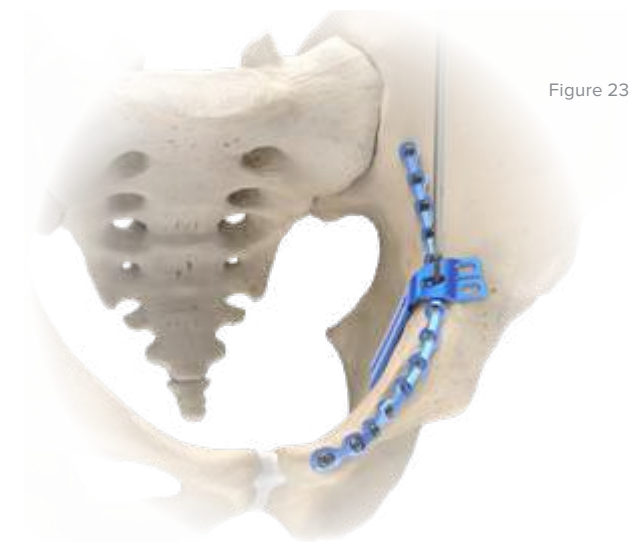


Figure 23



Quadrilateral Surface Plate
(70-0435 or 70-0436)



Plate Bender,
Large
(PL-2045)



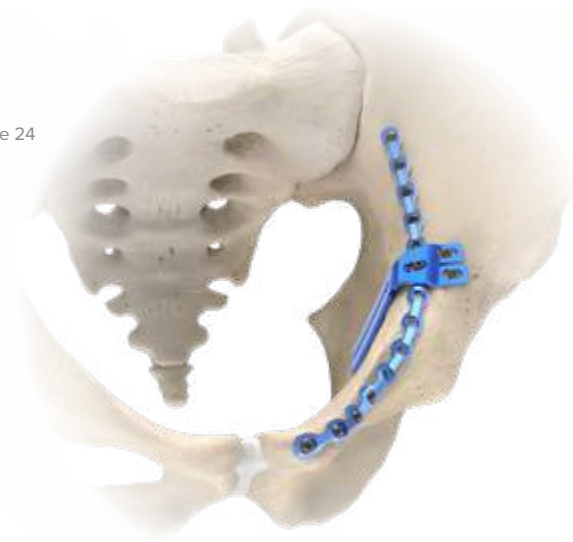
Anterior Brim
Plate
(70-043X)



3.5 mm Nonlocking
Hexalobe Screw
(30-0XXX)

Anterior Brim and Quadrilateral Surface Plate Surgical Technique [continued]

Figure 24



7 Confirmation

Drill, measure, and install 3.5 mm Nonlocking Hexalobe Screws (30-0XXX) in the remaining holes of the plate, at the surgeon's discretion. Tighten the screws by hand. Confirm all screws have been seated in the plate(s). Close the surgical site(s) using preferred techniques.

Caution: Driving the screws into the plate under power could cause the screw heads to go through the plate. To avoid this, tighten screws into the plate by hand.

8 Optional: Removal Instructions

To extract a Pelvic Plating System plate, use the following parts to remove all screws from the plate:

3.5 mm Hexalobe Screws:

Either the T15 Hexalobe Driver Tip, Long (80-1561), T15 Stick Fit Hexalobe Driver, 6 Inch (80-2087), or T15 Stick Fit Hexalobe Driver, 9 Inch (80-2088) and the Small Ratchet Handle with Quick Release Connection (80-0398).

Referencing the Screw Removal Brochure (SPF10-00) may aid in implant extraction if difficulty is experienced.



3.5 mm Nonlocking
Hexalobe Screw
(30-0XXX)



T15 Hexalobe
Driver Tip, Long
(80-1561)



T15 Stick Fit
Hexalobe Driver,
6 Inch
(80-2087)



T15 Stick Fit
Hexalobe Driver,
9 Inch
(80-2088)



Small Ratchet
Handle with
Quick Release
Connection
(80-0398)

Quadrilateral Surface Plate Surgical Technique

1 Exposure

Expose the medial wall of the acetabulum using a preferred surgical exposure. Reduce the acetabulum in preparation for plate installation.

Figure 25



2 Fitting

Ensure the quadrilateral surface is properly reduced in preparation for plate installation.

Test fit the Quadrilateral Surface Plate (70-0435 or 70-0436) and make any final adjustments to the plate contour using a Large Plate Bender (PL-2045).

Note: Plates designed for use on the left of the sagittal plane are **blue** in color and marked “left.” Plates designed for the right side of the sagittal plane are **green** in color and marked “right.”

Caution: If bending the plate, please observe the following:

- ▶ Place bends in plate sections that do not have holes
- ▶ Use several small bends to achieve a smooth overall bend
- ▶ Do not bend, unbend, and re-bend more than once

Figure 26



Quadrilateral Surface Plate
(70-0435 or 70-0436)



Plate Bender, Large
(PL-2045)

Quadrilateral Surface Plate Surgical Technique [continued]

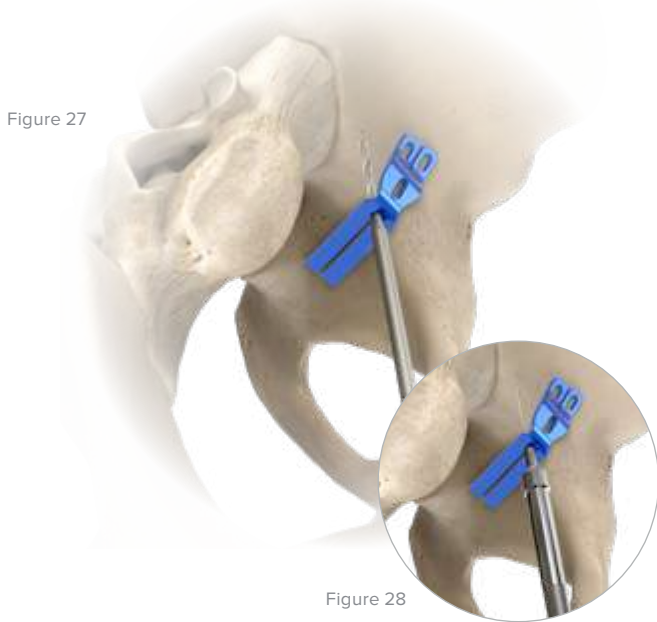


Figure 27

Figure 28



Figure 29

3 Drilling

With reduction confirmed, drill using the 2.8 mm Quick Release Drill, Long (80-1130) and the 2.8 mm Drill Guide, Long (80-1136) through the hole between the fingers of the plate. Using the Depth Gauge 10–150 mm (80-1134), determine the proper screw length and insert the proper length 3.5 mm Nonlocking Hexalobe Screw (30-0XXX). If a lateral window is created as part of the surgical procedure, the Quadrilateral Surface Plate (70-0435 or 70-0436) can be installed per the instructions listed in the Anterior Brim Plate surgical technique (see page 17).

4 Screw Insertion

Connect the T15 Stick Fit Hexalobe Driver, 6 inch (80-2087) to the Small Ratchet Handle with Quick Release Connection (80-0398) and fully seat the 3.5 mm nonlocking screw by hand.

Caution: Driving the screws into the plate under power could cause the screw heads to go through the plate. To avoid this, tighten screws into the plate by hand.

5 Optional: Removal Instructions

To extract a Pelvic Plating System plate, use the following parts to remove all screws from the plate:

3.5 mm Hexalobe Screws:

Either the T15 Hexalobe Driver Tip, Long (80-1561), T15 Stick Fit Hexalobe Driver, 6 Inch (80-2087), or T15 Stick Fit Hexalobe Driver, 9 Inch (80-2088) and the Small Ratchet Handle with Quick Release Connection (80-0398).

Referencing the Screw Removal Brochure (SPF10-00) may aid in implant extraction if difficulty is experienced.



2.8 mm Quick Release Drill, Long (80-1130)



2.8 mm Drill Guide, Long (80-1136)



Depth Gauge 10–150 mm (80-1134)



3.5 mm Nonlocking Hexalobe Screw (30-0XXX)



Quadrilateral Surface Plate (70-0435 or 70-0436)



T15 Stick Fit Hexalobe Driver, 6 inch (80-2087)



Small Ratchet Handle with Quick Release Connection (80-0398)



T15 Hexalobe Driver Tip, Long (80-1561)



T15 Stick Fit Hexalobe Driver, 9 Inch (80-2088)

Intrapelvic Plate Surgical Technique

1 Fitting

Test fit the Intrapelvic Plate (70-04XX). Make any final adjustments to the plate contour using Pelvic Plate Bending Pliers (80-1141) or the Large Plate Bender (PL-2045).

Note: If bending the plate using the Pelvic Plate Bending Pliers (80-1141), observe the following:

- ▶ For in-plane bending, insert the plate parallel to the bending piston. Situate the plate such that the piston is between holes. Compress the handle to bend the plate

Caution: If bending the plate, please observe the following:

- ▶ Place bends in plate sections that do not have holes
- ▶ Use several small bends to achieve a smooth overall bend
- ▶ Do not bend, unbend, and re-bend more than once



Figure 30

2 Drilling

With provisional reduction confirmed, drill using the 2.8 mm Quick Release Drill, Long (80-1130) and 2.8 mm Drill Guide, Long (80-1136) through a hole in the posterior end of the plate. Using the Depth Gauge 10–150 mm (80-1134), determine the proper screw length and insert the proper length 3.5 mm Nonlocking Hexalobe Screw (30-0XXX).



Figure 31



Intrapelvic Plate
(70-04XX)



Pelvic Plate
Bending Pliers
(80-1141)



Plate Bender,
Large
(PL-2045)



2.8 mm Quick
Release Drill, Long
(80-1130)



2.8 mm Drill
Guide, Long
(80-1136)



Depth Gauge
10–150 mm
(80-1134)



3.5 mm Nonlocking
Hexalobe Screw
(30-0XXX)

Intrapelvic Plate Surgical Technique [continued]

Figure 32



3 Screw Insertion

Connect the T15 Stick Fit Hexalobe Driver, 6 inch (80-2087) to the Small Ratchet Handle with Quick Release Connection (80-0398) and fully seat the 3.5 mm Nonlocking Hexalobe Screw (30-0XXX) by hand.

Caution: Driving the screws into the plate under power could cause the screw heads to go through the plate. To avoid this, tighten screws into the plate by hand.

Figure 33



4 Reduction and Placement

Use the Intrapelvic Plate Reduction Clamp (80-1152) to help reduce the plate to the bone and move plate to appropriate area.



T15 Stick Fit Hexalobe Driver, 6 inch (80-2087)



Small Ratchet Handle with Quick Release Connection (80-0398)



3.5 mm Nonlocking Hexalobe Screw (30-0XXX)



Intrapelvic Plate Reduction Clamp (80-1152)

Intrapelvic Plate Surgical Technique [continued]

5 Screw Insertion

Drill, measure, and install 3.5 mm Nonlocking Hexalobe Screws (30-0XXX) in the remaining holes of the plate, at the surgeon's discretion. Tighten the screws by hand. Confirm all screws have been seated in the plate(s). Close the surgical site(s) using preferred techniques.

Caution: Driving the screws into the plate under power could cause the screw heads to go through the plate. To avoid this, tighten screws into the plate by hand.



Figure 34

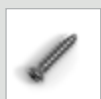
6 Optional: Removal Instructions

To extract a Pelvic Plating System plate, use the following parts to remove all screws from the plate:

3.5 mm Hexalobe Screws:

Either the T15 Hexalobe Driver Tip, Long (80-1561), T15 Stick Fit Hexalobe Driver, 6 Inch (80-2087), or T15 Stick Fit Hexalobe Driver, 9 Inch (80-2088) and the Small Ratchet Handle with Quick Release Connection (80-0398).

Referencing the Screw Removal Brochure (SPF10-00) may aid in implant extraction if difficulty is experienced.



3.5 mm Nonlocking
Hexalobe Screw
(30-0XXX)



T15 Hexalobe
Driver Tip, Long
(80-1561)



T15 Stick Fit
Hexalobe Driver,
6 Inch
(80-2087)



T15 Stick Fit
Hexalobe Driver,
9 Inch
(80-2088)



Small Ratchet
Handle with
Quick Release
Connection
(80-0398)

Acetabular Plate Surgical Technique for Posterior Wall Fractures

Figure 35



1 Exposure

Expose the posterior wall of the acetabulum using a preferred surgical exposure. Reduce the acetabulum in preparation for plate installation.

Figure 36



2 Fitting

Test fit the selected Posterior Wall Acetabular Fragment Plate (70-0427, 70-0428, 70-0458, or 70-0459). Make any final adjustments to the plate contour using the Large Plate Bender (PL-2045) or Pelvic Plate Bending Pliers (80-1141).

Note: Plates designed for the left of the sagittal plane are **blue** in color and marked “left.” Plates designed for the right side of the sagittal plane are **green** in color and marked “right.”

Use provisional K-wires between the prongs of the plate.

If bending the plate using the Pelvic Plate Bending Pliers (80-1141), observe the following:

- ▶ For in-plane bending, insert the plate parallel to the bending piston. Situate the plate so that the piston is between holes. Compress the handle to bend the plate

Caution: If bending the plate, please observe the following:

- ▶ Place bends in plate sections that do not have holes
- ▶ Use several small bends to achieve a smooth overall bend
- ▶ Do not bend, unbend, and re-bend more than once



Posterior Wall Acetabular Fragment Plate (70-0427, 70-0428, 70-0458, or 70-0459)



Plate Bender, Large (PL-2045)



Pelvic Plate Bending Pliers (80-1141)

Acetabular Plate Surgical Technique for Posterior Wall Fractures [continued]

3 Drilling

Drill using the 2.8 mm Quick Release Drill, Long (80-1130) and 2.8 mm Drill Guide, Long (80-1136) through a hole in the distal end of the plate. Using the Depth Gauge 10–150 mm (80-1134), determine the proper screw length and insert the proper length 3.5 mm Nonlocking Hexalobe Screw (30-0XXX).

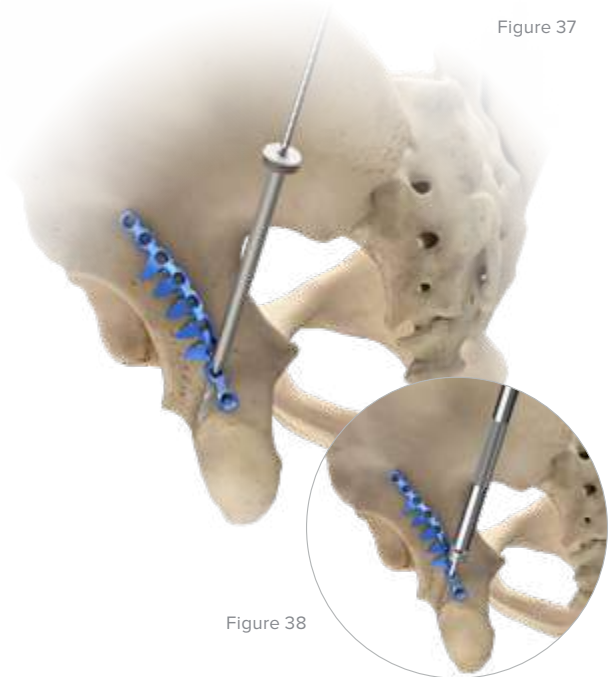


Figure 37

Figure 38

4 Screw Insertion

Connect the T15 Stick Fit Hexalobe Driver, 6 inch (80-2087) to the Small Ratchet Handle with Quick Release Connection (80-0398) and fully seat the 3.5 mm Nonlocking Hexalobe Screw (30-0XXX) by hand.

Caution: Driving the screws into the plate under power could cause the screw heads to go through the plate. To avoid this, tighten screws into the plate by hand.

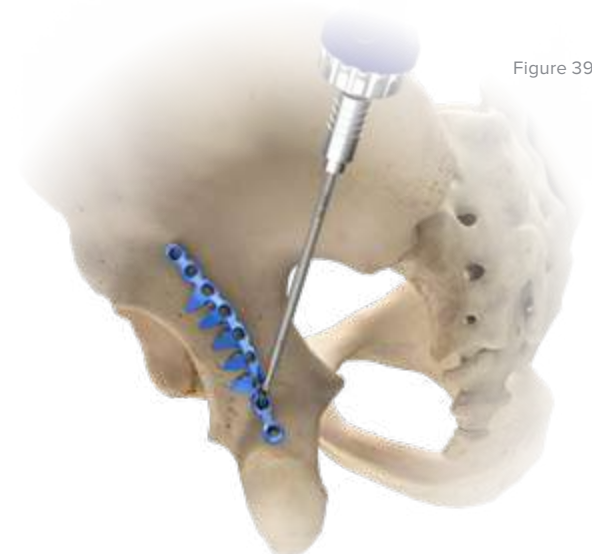


Figure 39



Acetabular Plate Surgical Technique for Posterior Wall Fractures [continued]

Figure 40

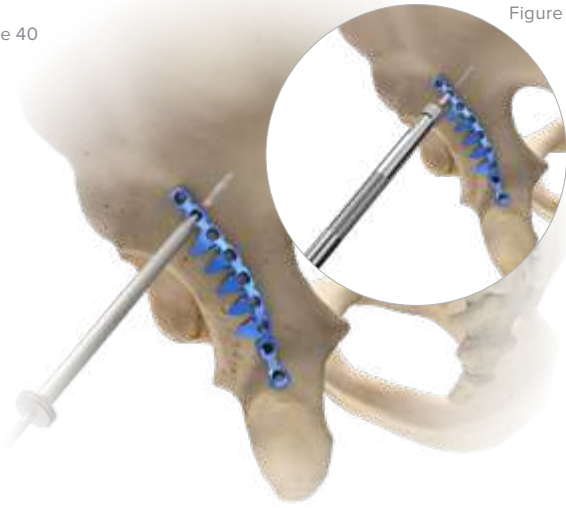
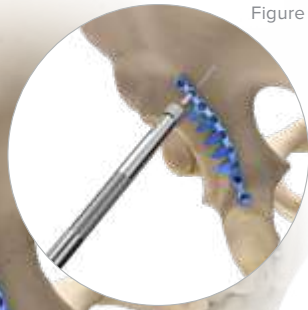


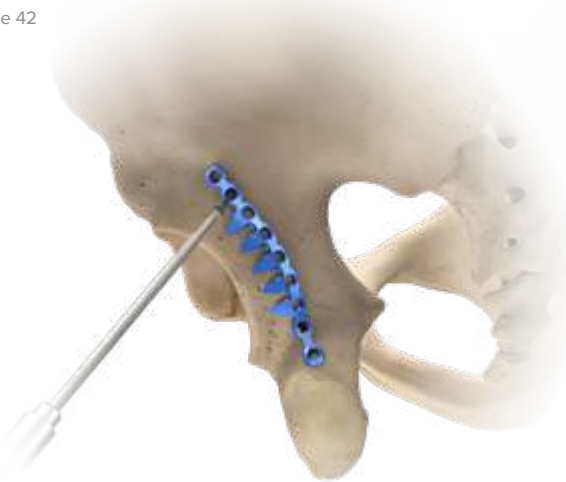
Figure 41



5 Drilling

Drill a hole through the proximal end of the plate using the 2.8 mm Quick Release Drill, Long (80-1130) and the 2.8 mm Drill Guide, Long (80-1136). Utilizing the Depth Gauge 10–150 mm (80-1134), determine the proper screw length and insert the proper length 3.5 mm Nonlocking Hexalobe Screw (30-0XXX).

Figure 42



6 Screw Insertion

Insert a 3.5 mm Nonlocking Hexalobe Screw (30-0XXX). Fully seat the screw in the plate by hand. Ensure the prongs on the plate do not encroach into the joint space.

Caution: Driving the screws into the plate under power could cause the screw heads to go through the plate. To avoid this, tighten screws into the plate by hand.



2.8 mm Quick Release Drill, Long (80-1130)



2.8 mm Drill Guide, Long (80-1136)



Depth Gauge 10–150 mm (80-1134)



3.5 mm Nonlocking Hexalobe Screw (30-0XXX)

Acetabular Plate Surgical Technique for Posterior Wall Fractures [continued]

7 Screw Insertion

Drill, measure, and install 3.5 mm Nonlocking Hexalobe Screws (30-0XXX) in the remaining holes of the plate, at the surgeon's discretion. Tighten the screws by hand. Confirm all screws have been seated in the plate. Close the surgical site(s) using preferred techniques.

Caution: Driving the screws into the plate under power could cause the screw heads to go through the plate. To avoid this, tighten screws into the plate by hand.

Figure 43



8 Optional: Removal Instructions

To extract a Pelvic Plating System plate, use the following parts to remove all screws from the plate:

3.5 mm Hexalobe Screws:

Either the T15 Hexalobe Driver Tip, Long (80-1561), T15 Stick Fit Hexalobe Driver, 6 Inch (80-2087), or T15 Stick Fit Hexalobe Driver, 9 Inch (80-2088) and the Small Ratchet Handle with Quick Release Connection (80-0398).

Referencing the Screw Removal Brochure (SPF10-00) may aid in implant extraction if difficulty is experienced.



3.5 mm Nonlocking
Hexalobe Screw
(30-0XXX)



T15 Hexalobe
Driver Tip, Long
(80-1561)



T15 Stick Fit
Hexalobe Driver,
6 Inch
(80-2087)



T15 Stick Fit
Hexalobe Driver,
9 Inch
(80-2088)



Small Ratchet
Handle with
Quick Release
Connection
(80-0398)

Acetabular Spring Plate Surgical Technique for Posterior Wall Fractures

Figure 44



1 Exposure

Expose the posterior wall of the acetabulum using a preferred surgical exposure. Reduce the acetabulum in preparation for plate installation. If spring plates will be used in conjunction with the Posterior Wall Plates, continue on to the next step. If not, skip to Step 5.

Figure 45



2 Fitting

Test fit the Acetabular Spring Plate (70-0429 or 70-0430). Make any final adjustments to the plate contour using the Large Plate Bender (PL-2045).

Caution: If bending the plate, please observe the following:

- ▶ Place bends in plate sections that do not have holes
- ▶ Use several small bends to achieve a smooth overall bend
- ▶ Do not bend, unbend, and re-bend more than once



Acetabular Spring Plate (70-0429 or 70-0430)



Plate Bender, Large (PL-2045)

Acetabular Spring Plate Surgical Technique for Posterior Wall Fractures [continued]

3 Drilling

With reduction confirmed, drill using the 2.8 mm Quick Release Drill, Long (80-1130) and 2.8 mm Drill Guide, Long (80-1136) through the neutral slot in the plate. Using the Depth Gauge 10–150 mm (80-1134), determine the proper screw length and insert the proper length 3.5 mm Nonlocking Hexalobe Screw (30-0XXX).

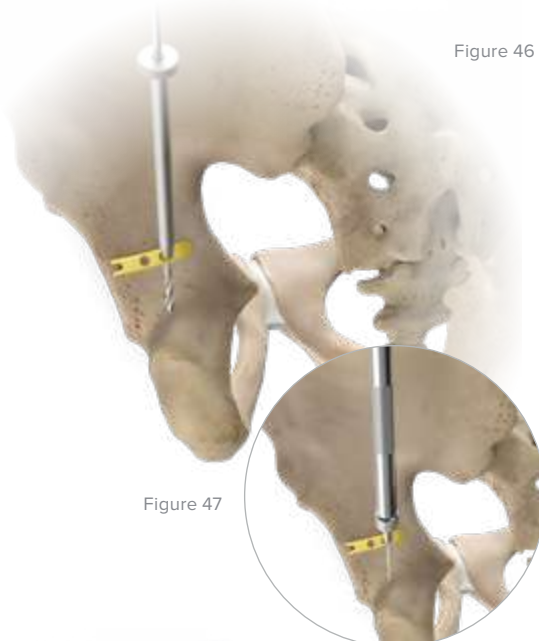


Figure 46

Figure 47

4 Screw Insertion

Connect the T15 Stick Fit Hexalobe Driver, 6 inch (80-2087) to the Small Ratchet Handle with Quick Release Connection (80-0398) and insert a 3.5 mm Nonlocking Hexalobe Screw (30-0XXX). Leave this screw partially tightened to allow for final plate alignment. If the surgeon anticipates no further adjustments, fully seat the screw by hand in the neutral slot.

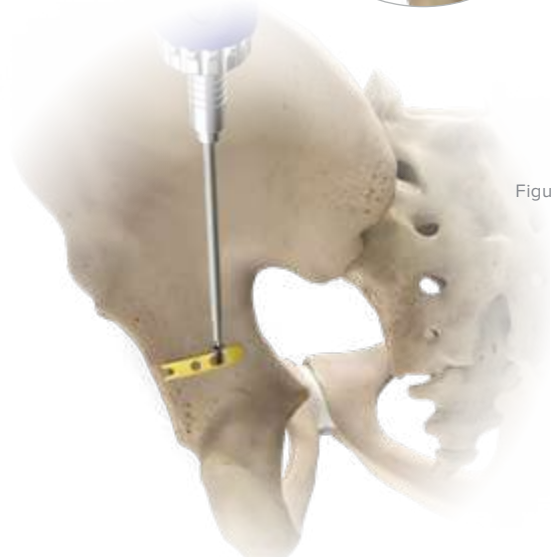


Figure 48

Drill, measure, and install 3.5 mm nonlocking screws in the remaining holes of the plate, at the surgeon's discretion. Ensure the prongs of the Acetabular Spring Plate (70-0429 or 70-0430) do not encroach into the hip joint.

Caution: Driving the screws into the plate under power could cause the screw heads to go through the plate. To avoid this, tighten screws into the plate by hand.



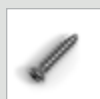
2.8 mm Quick Release Drill, Long (80-1130)



2.8 mm Drill Guide, Long (80-1136)



Depth Gauge 10–150 mm (80-1134)



3.5 mm Nonlocking Hexalobe Screw (30-0XXX)



T15 Stick Fit Hexalobe Driver, 6 inch (80-2087)



Small Ratchet Handle with Quick Release Connection (80-0398)



Acetabular Spring Plate (70-0429 or 70-0430)

Acetabular Spring Plate Surgical Technique for Posterior Wall Fractures [continued]

Figure 49



5 Fitting

Test fit the selected Posterior Wall Acetabular Plate (70-04XX). Make any final adjustments to the plate contour using the Large Plate Bender (PL-2045) or Pelvic Plate Bending Pliers (80-1141).

Caution: If bending the plate using the Pelvic Plate Bending Pliers (80-1141), observe the following:

- ▶ For in-plane bending, insert the plate parallel to the bending piston. Situate the plate so the piston is between holes. Compress the handle to bend the plate.

Figure 50



6 Drilling

Drill using the 2.8 mm Quick Release Drill, Long (80-1130) and 2.8 mm Drill Guide, Long (80-1136) through a hole in the distal end of the plate. Utilizing the Depth Gauge 10–150 mm (80-1134), determine the proper screw length and insert the proper length 3.5 mm Nonlocking Hexalobe Screw (30-0XXX).

Figure 51



Posterior Wall Acetabular Plate (70-04XX)



Plate Bender, Large (PL-2045)



Pelvic Plate Bending Pliers (80-1141)



2.8 mm Quick Release Drill, Long (80-1130)



2.8 mm Drill Guide, Long (80-1136)



Depth Gauge 10–150 mm (80-1134)



3.5 mm Nonlocking Hexalobe Screw (30-0XXX)

Acetabular Spring Plate Surgical Technique for Posterior Wall Fractures [continued]

7 Screw Insertion

Connect the T15 Stick Fit Hexalobe Driver, 6 inch (80-2087) to the Small Ratchet Handle with Quick Release Connection (80-0398) and fully seat the 3.5 mm Nonlocking Hexalobe Screw (30-0XXX) by hand.

Caution: Driving the screws into the Posterior Wall Acetabular Plate (70-04XX) under power could cause the screw heads to go through the plate. To avoid this, tighten screws into the plate by hand.

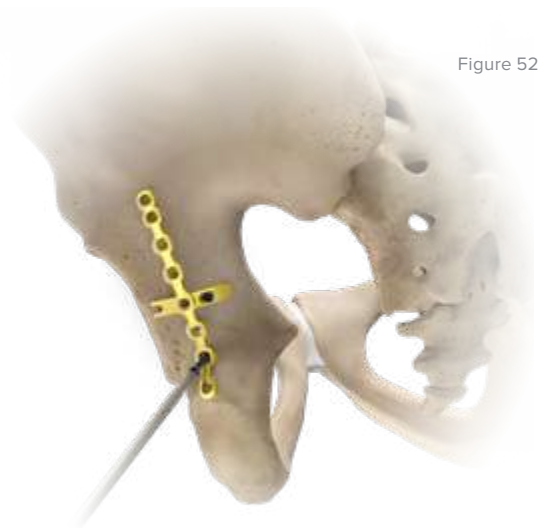


Figure 52

8 Drilling

Drill a hole through the proximal end of the plate using the 2.8 mm Quick Release Drill, Long (80-1130) and the 2.8 mm Drill Guide, Long (80-1136). Using the Depth Gauge 10–150 mm (80-1134), determine the proper screw length and insert the proper length 3.5 mm Nonlocking Hexalobe Screw (30-0XXX).

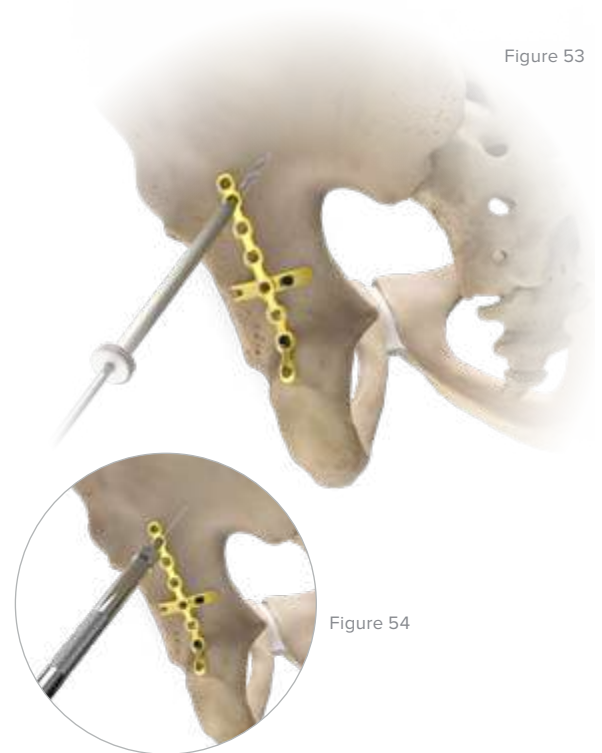


Figure 53

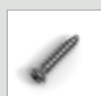
Figure 54



T15 Stick Fit Hexalobe Driver, 6 inch (80-2087)



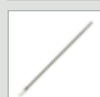
Small Ratchet Handle with Quick Release Connection (80-0398)



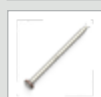
3.5 mm Nonlocking Hexalobe Screw (30-0XXX)



Posterior Wall Acetabular Plate (70-04XX)



2.8 mm Quick Release Drill, Long (80-1130)



2.8 mm Drill Guide, Long (80-1136)



Depth Gauge 10–150 mm (80-1134)

Acetabular Spring Plate Surgical Technique for Posterior Wall Fractures [continued]

Figure 55



9 Screw Insertion

Insert a 3.5 mm Nonlocking Hexalobe Screw (30-0XXX). Fully seat the screw in the Posterior Wall Acetabular Plate (70-04XX) by hand. Ensure the prongs on the plate do not encroach into the joint space.

Caution: Driving the screws into the plate under power could cause the screw heads to go through the plate. To avoid this, tighten screws into the plate by hand.

Figure 56



10 Screw Insertion

Drill, measure, and install 3.5 mm Nonlocking Hexalobe Screws (30-0XXX) in the remaining holes of the plate, at the surgeon's discretion. Tighten the screws by hand. Confirm all screws have been seated in the plate(s). Close the surgical site(s) using preferred techniques.

Caution: Driving the screws into the plate under power could cause the screw heads to go through the plate. To avoid this, tighten screws into the plate by hand.



Posterior Wall Acetabular Plate (70-04XX)



3.5 mm Nonlocking Hexalobe Screw (30-0XXX)

Acetabular Spring Plate Surgical Technique for Posterior Wall Fractures [continued]

11 Optional: Removal Instructions

To extract a Pelvic Plating System plate, use the following parts to remove all screws from the plate:

3.5 mm Hexalobe Screws:

Either the T15 Hexalobe Driver Tip, Long (80-1561), T15 Stick Fit Hexalobe Driver, 6 Inch (80-2087), or T15 Stick Fit Hexalobe Driver, 9 Inch (80-2088) and the Small Ratchet Handle with Quick Release Connection (80-0398).

Referencing the Screw Removal Brochure (SPF10-00) may aid in implant extraction if difficulty is experienced.



T15 Hexalobe Driver Tip, Long (80-1561)



T15 Stick Fit Hexalobe Driver, 6 Inch (80-2087)



T15 Stick Fit Hexalobe Driver, 9 Inch (80-2088)



Small Ratchet Handle with Quick Release Connection (80-0398)

Reconstruction Plate Surgical Technique

Figure 57



1 Exposure

Expose the area of the pelvis to be repaired using a preferred surgical exposure. Reduce the fracture in preparation for plate installation.

Figure 58



2 Fitting

Select the proper length Reconstruction Plate (70-0441 through 70-0448) for the application. Test fit the plate. Make any final adjustments to the plate contour using the Large Plate Bender (PL-2045) and/or Pelvic Plate Bending Pliers (80-1141). The plate can also be trimmed to length using the Plate Cutters (80-1143). Provisionally attach the plate using Long Plate Tacks (80-1140).

Caution: If bending the plate, please observe the following:

- ▶ Place bends in plate sections that do not have holes
- ▶ Use several small bends to achieve a smooth overall bend
- ▶ Do not bend, unbend, and re-bend more than once

Note: If bending the plate using the Pelvic Plate Bending Pliers, observe the following:

- ▶ For in-plane bending, insert the plate parallel to the bending piston. Situate the plate such that the piston is between holes. Compress the handle to bend the plate



Reconstruction Plate
(70-0441 through
70-0448)



Plate Bender,
Large
(PL-2045)



Pelvic Plate
Bending Pliers
(80-1141)



Plate Cutters
(80-1143)



Plate Tack, Long
(80-1140)

Reconstruction Plate Surgical Technique [continued]

3 Drilling

With reduction confirmed, drill using the 2.8 mm Quick Release Drill, Long (80-1130) and 2.8 mm Drill Guide, Long (80-1136) through a desired hole in the plate. Using the Depth Gauge 10–150 mm (80-1134), determine the proper screw length and insert the proper length 3.5 mm Nonlocking Hexalobe Screw (30-0XXX).

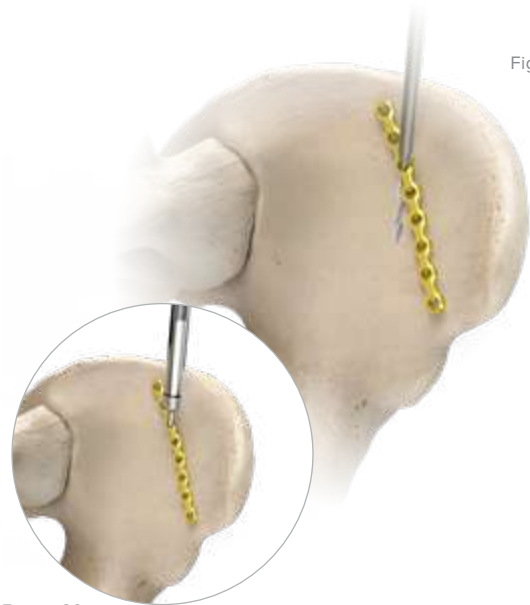


Figure 59

Figure 60

4 Screw Insertion

Connect the T15 Stick Fit Hexalobe Driver, 6 inch (80-2087) to the Small Ratchet Handle with Quick Release Connection (80-0398) and insert a 3.5 mm Nonlocking Hexalobe Screw (30-0XXX).

Caution: Driving the screws into the plate under power could cause the screw heads to go through the plate. To avoid this possible consequence, screws should be tightened into the plate by hand.



Figure 61



2.8 mm Quick Release Drill, Long (80-1130)



2.8 mm Drill Guide, Long (80-1136)



Depth Gauge 10–150 mm (80-1134)



3.5 mm Nonlocking Hexalobe Screw (30-0XXX)



T15 Stick Fit Hexalobe Driver, 6 Inch (80-2087)



Small Ratchet Handle with Quick Release Connection (80-0398)

Reconstruction Plate Surgical Technique [continued]

Figure 62



5 Screw Insertion

Drill, measure, and install 3.5 mm Nonlocking Hexalobe Screws (30-0XXX) in the remaining holes of the plate, at the surgeon's discretion. Tighten the screws by hand. Confirm all screws have been seated in the plate(s). Close the surgical site(s) using preferred techniques.

Caution: Driving the screws into the plate under power could cause the screw heads to go through the plate. To avoid this, tighten screws into the plate by hand.

6 Optional: Removal Instructions

To extract a Pelvic Plating System plate, use the following parts to remove all screws from the plate:

3.5 mm Hexalobe Screws:

Either the T15 Hexalobe Driver Tip, Long (80-1561), T15 Stick Fit Hexalobe Driver, 6 Inch (80-2087), or T15 Stick Fit Hexalobe Driver, 9 Inch (80-2088) and the Small Ratchet Handle with Quick Release Connection (80-0398).

Referencing the Screw Removal Brochure (SPF10-00) may aid in implant extraction if difficulty is experienced.



3.5 mm Nonlocking Hexalobe Screw (30-0XXX)



T15 Hexalobe Driver Tip, Long (80-1561)



T15 Stick Fit Hexalobe Driver, 6 Inch (80-2087)



T15 Stick Fit Hexalobe Driver, 9 Inch (80-2088)



Small Ratchet Handle with Quick Release Connection (80-0398)

Interlocking Reconstruction Plate Surgical Technique

1 Exposure

Expose the area of the pelvis to be repaired using a preferred surgical exposure. Reduce the fracture in preparation for plate installation. The Interlocking Reconstruction Plate (70-0449) can be used with other plates in the system. Install a first plate as indicated in the corresponding surgical technique.

The Interlocking Reconstruction Plate can be oriented to allow the user to pass a 3.5 mm Nonlocking Hexalobe Screw (30-0XXX) through this plate and the previously installed plate using the plate's overlapping feature. This is done by first trimming the unused portion of the plate using the Plate Cutters (80-1143).



Figure 63

2 Fitting

Once the plate is trimmed for the application, it can be contoured to fit the desired location on the pelvis using the Large Plate Bender (PL-2045) and/or the Pelvic Plate Bending Pliers (80-1141).

The plate can then be provisionally attached to bone using Long Plate Tacks (80-1140).

Caution: If bending the plate, please observe the following:

- ▶ Place bends in plate sections that do not have holes
- ▶ Use several small bends to achieve a smooth overall bend
- ▶ Do not bend, unbend, and re-bend more than once

Note: If bending the plate using the Pelvic Plate Bending Pliers (80-1141), observe the following:

- ▶ For in-plane bending, insert the plate parallel to the bending piston. Situate the plate so the piston is between holes. Compress the handle to bend the plate



Figure 64



Interlocking Reconstruction Plate Surgical Technique [continued]

Figure 65

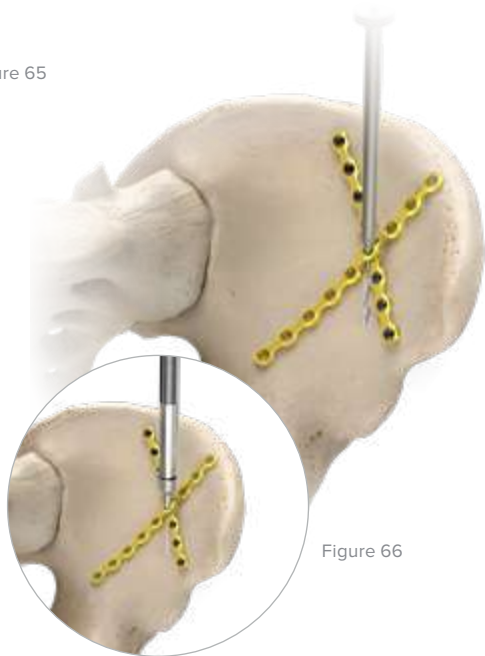


Figure 66

3 Drilling

With reduction confirmed, drill using the 2.8 mm Quick Release Drill, Long (80-1130) and 2.8 mm Drill Guide, Long (80-1136) through the location in the plate construct that passes through a hole in both plates. Using the Depth Gauge 10–150 mm (80-1134), determine the proper screw length and insert the proper length 3.5 mm Nonlocking Hexalobe Screw (30-0XXX).

Figure 67



4 Screw Insertion

Connect the T15 Stick Fit Hexalobe Driver, 6 inch (80-2087) to the Small Ratchet Handle with Quick Release Connection (80-0398) and insert a 3.5 mm Nonlocking Hexalobe Screw (30-0XXX). Leave this screw partially tightened to allow for final plate alignment. If the surgeon anticipates no further adjustments, fully seat the screw by hand.

Caution: Driving the screws into the plate under power could cause the screw heads to go through the plate. To avoid this, tighten screws into the plate by hand.



2.8 mm Quick Release Drill, Long (80-1130)



2.8 mm Drill Guide, Long (80-1136)



Depth Gauge 10–150 mm (80-1134)



3.5 mm Nonlocking Hexalobe Screw (30-0XXX)



T15 Stick Fit Hexalobe Driver, 6 inch (80-2087)



Small Ratchet Handle with Quick Release Connection (80-0398)

Interlocking Reconstruction Plate Surgical Technique [continued]

5 Screw Insertion

Drill, measure, and install 3.5 mm Nonlocking Hexalobe Screws (30-0XXX) in the remaining holes of the plate, at the surgeon's discretion. Tighten the screws by hand. Confirm all screws have been seated in the plate(s). Close the surgical site(s) using preferred techniques.

Caution: Driving the screws into the plate under power could cause the screw heads to go through the plate. To avoid this, tighten screws into the plate by hand.



Figure 68

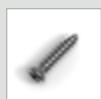
6 Optional: Removal Instructions

To extract a Pelvic Plating System plate, use the following parts to remove all screws from the plate:

3.5 mm Hexalobe Screws:

Either the T15 Hexalobe Driver Tip, Long (80-1561), T15 Stick Fit Hexalobe Driver, 6 Inch (80-2087), or T15 Stick Fit Hexalobe Driver, 9 Inch (80-2088) and the Small Ratchet Handle with Quick Release Connection (80-0398).

Referencing the Screw Removal Brochure (SPF10-00) may aid in implant extraction if difficulty is experienced.



3.5 mm Nonlocking
Hexalobe Screw
(30-0XXX)



T15 Hexalobe
Driver Tip, Long
(80-1561)



T15 Stick Fit
Hexalobe Driver,
6 Inch
(80-2087)



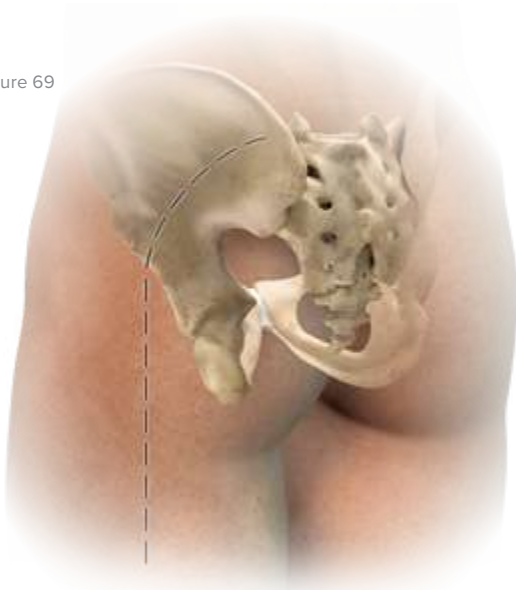
T15 Stick Fit
Hexalobe Driver,
9 Inch
(80-2088)



Small Ratchet
Handle with
Quick Release
Connection
(80-0398)

2.7 mm Nonlocking Hexalobe Screw Surgical Technique

Figure 69



1 Exposure

Expose the area of the pelvis to be repaired using a preferred surgical exposure. Reduce the fracture in preparation for screw installation.

Note: The 2.7 mm Nonlocking Hexalobe Screws (30-03XX) are only to be used for supplemental interfragmentary fixation.

Caution: The 2.7 mm Nonlocking Hexalobe Screws are not intended to be used for plate fixation. The plates in this system are not designed to interface with these screws.

Figure 70

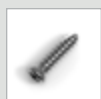


2 Drilling

With reduction confirmed, drill using the 2.0 mm Quick Release Drill (80-0318) and 2.0/2.8 mm Thin Drill Guide (PL-2118) in the desired location. Using the Depth Gauge 10–150 mm (80-1134), determine the proper screw length and insert the proper length 2.7 mm Nonlocking Hexalobe Screw (30-03XX).



Figure 71



2.7 mm Nonlocking Hexalobe Screw (30-03XX)



2.0 mm Quick Release Drill (80-0318)



2.0/2.8 mm Thin Drill Guide (PL-2118)



Depth Gauge 10–150 mm (80-1134)

2.7 mm Nonlocking Hexalobe Screw Surgical Technique [continued]

3 Screw Insertion

Connect the T8 Stick Fit Hexalobe Driver (80-0759) to the Small Ratchet Handle with Quick Release Connection (80-0398) and insert a 2.7 mm Nonlocking Hexalobe Screw (30-03XX). Fully seat the screw.



Figure 72

4 Screw Insertion

Repeat Steps 1–3 as necessary. Continue the definitive fixation of the fracture using the appropriate surgical technique previously described.



Figure 73

5 Optional: Removal Instructions

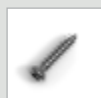
2.7 mm Nonlocking Hexalobe Screws may be removed using the T8 Stick Fit Hexalobe Driver (80-0759) and the Small Ratchet Handle with Quick Release Connection (80-0398).



T8 Stick Fit Hexalobe Driver (80-0759)



Small Ratchet Handle with Quick Release Connection (80-0398)



2.7 mm Nonlocking Hexalobe Screw (30-03XX)



T15 Hexalobe Driver Tip, Long (80-1561)



T15 Stick Fit Hexalobe Driver, 6 Inch (80-2087)



T15 Stick Fit Hexalobe Driver, 9 Inch (80-2088)

4.3 mm Hexalobe Column Screw Surgical Technique

Figure 74



1 Exposure

Expose the area of the pelvis to be repaired using a preferred surgical exposure. Reduce the fracture in preparation for screw installation.

Note: The 4.3 mm Hexalobe Column Screws (30-0XXX) are only to be used for interfragmentary fixation.

Caution: The 4.3 mm Hexalobe Column Screws are not intended to be used for plate fixation. The plates in this system are not designed to interface with these screws.

Figure 75



2 Drilling

With reduction confirmed, drill using the 3.5 mm Quick Release Flexible Drill, Long (80-1132) and 3.5 mm Flexible Drill Guide, Long (80-1139) in the desired location. Using the Depth Gauge 10–150 mm (80-1134), determine the proper screw length and insert the proper length 4.3 mm Hexalobe Column Screw (30-0XXX).

Note: The 3.5 mm Quick Release Flexible Drill, Long (80-1132) assists the user in drilling long distances (>80 mm) by allowing non-linear drill paths to be created.



4.3 mm Hexalobe Column Screw (30-0XXX)



3.5 mm Quick Release Flexible Drill, Long (80-1132)



3.5 mm Flexible Drill Guide, Long (80-1139)



Depth Gauge 10–150 mm (80-1134)

4.3 mm Hexalobe Column Screw Surgical Technique [continued]

3 Screw Insertion

Connect the T15 Stick Fit Hexalobe Driver, 6 inch (80-2087) to the Small Ratchet Handle with Quick Release Connection (80-0398) and insert a 4.3 mm Hexalobe Column Screw (30-0XXX). Fully seat the screw.

Note: In cases of dense bone, it may be necessary to open the near cortex using the 4.3 mm Quick Release Drill, Long (80-1133).

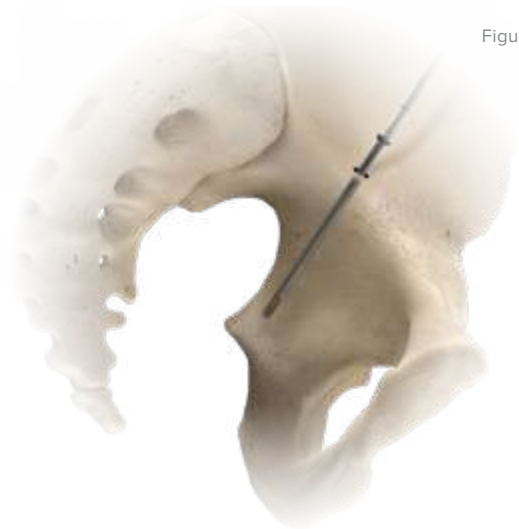


Figure 77

4 Screw Insertion

Repeat Steps 1–3 at the surgeon's discretion. Continue the definitive fixation of the fracture using the appropriate surgical technique previously described. Confirm all screws have been seated. Close the surgical site(s) using preferred techniques.

Note: Optional Cannulated Screw Washers (7003-10046) are included in the Acumed Cannulated Screw System, and may be used with the 4.3 mm Hexalobe Column Screws (30-0XXX) at the surgeon's discretion.



Figure 78

5 Optional: Removal Instructions

4.3 mm Hexalobe Column Screws may be removed using either the T15 Hexalobe Driver Tip, Long (80-1561), T15 Stick Fit Hexalobe Driver, 6 Inch (80-2087), or T15 Stick Fit Hexalobe Driver, 9 Inch (80-2088) and the Small Ratchet Handle with Quick Release Connection (80-0398).



T15 Stick Fit
Hexalobe Driver,
6 inch
(80-2087)



Small Ratchet
Handle with
Quick Release
Connection
(80-0398)



4.3 mm Hexalobe
Column Screw
(30-0XXX)



4.3 mm Quick
Release Drill, Long
(80-1133)



T15 Hexalobe
Driver Tip, Long
(80-1561)



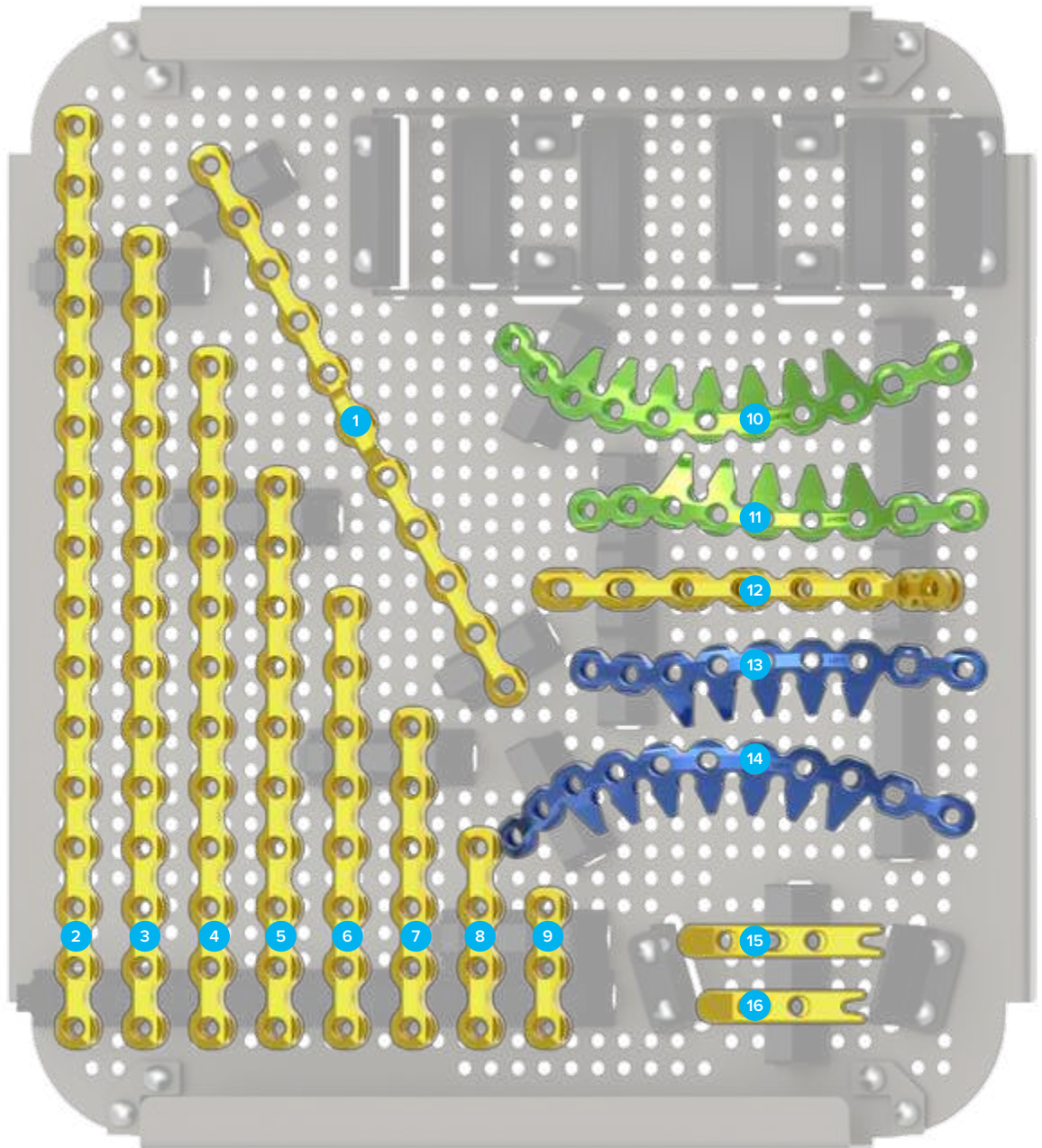
T15 Stick Fit
Hexalobe Driver,
9 Inch
(80-2088)

Ordering Information

Tray Components

Posterior Pelvic Plates

1	3.5 mm Interlocking Reconstruction Plate, 11 Hole	70-0449	10	Curved Posterior Wall Acetabular Frag Plate, Right	70-0459
2	3.5 mm Reconstruction Plate, 16 Hole	70-0448	11	Posterior Wall Acetabular Frag Plate, Right	70-0428
3	3.5 mm Reconstruction Plate, 14 Hole	70-0447	12	Posterior Wall Acetabular Plate	70-0426
4	3.5 mm Reconstruction Plate, 12 Hole	70-0446	13	Posterior Wall Acetabular Frag Plate, Left	70-0427
5	3.5 mm Reconstruction Plate, 10 Hole	70-0445	14	Curved Posterior Wall Acetabular Frag Plate, Left	70-0458
6	3.5 mm Reconstruction Plate, 8 Hole	70-0444	15	Acetabular Spring Plate, 3 Hole	70-0430
7	3.5 mm Reconstruction Plate, 6 Hole	70-0443	16	Acetabular Spring Plate, 2 Hole	70-0429
8	3.5 mm Reconstruction Plate, 4 Hole	70-0442			
9	3.5 mm Reconstruction Plate, 3 Hole	70-0441			

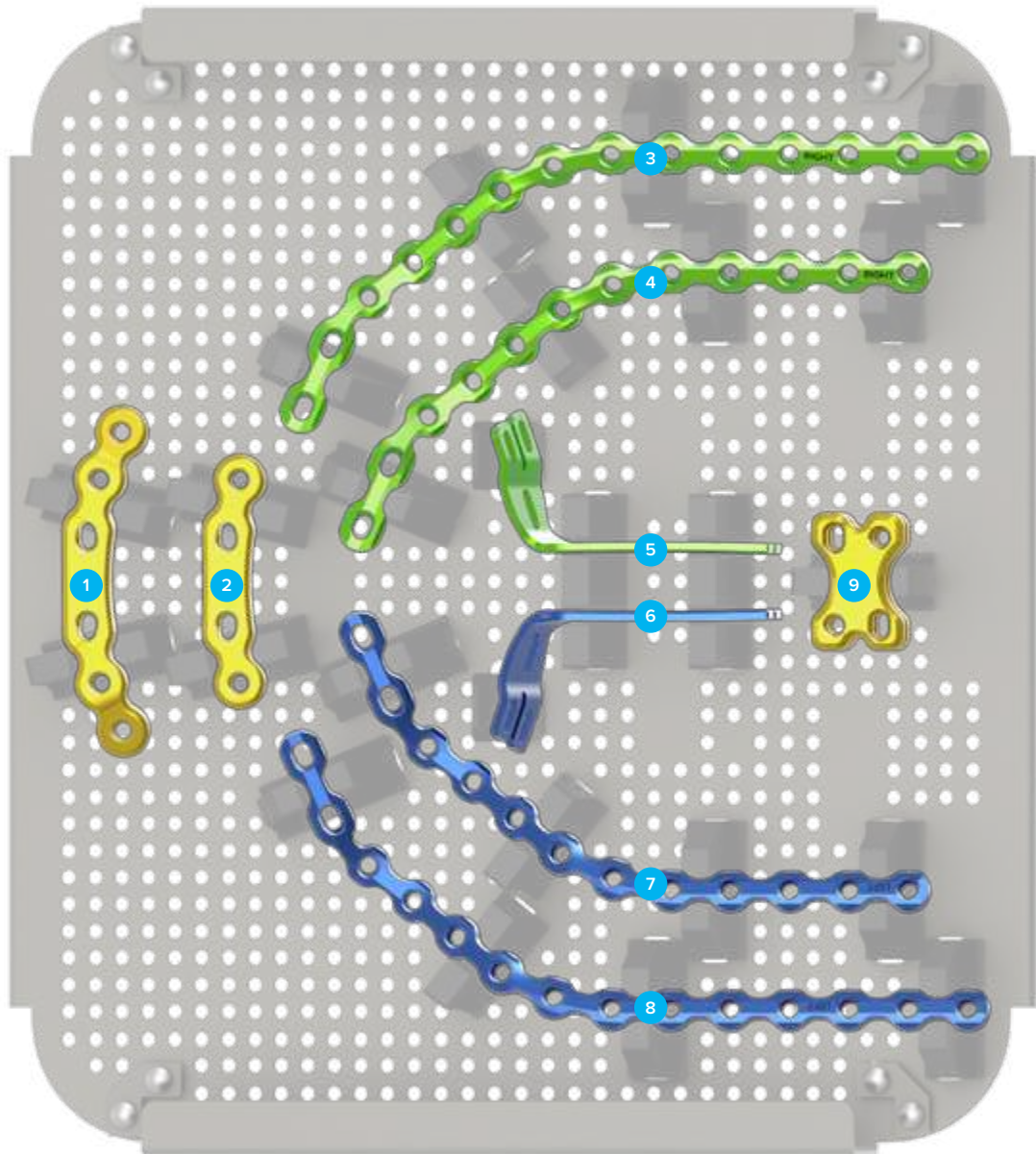


Ordering Information [continued]

Tray Components

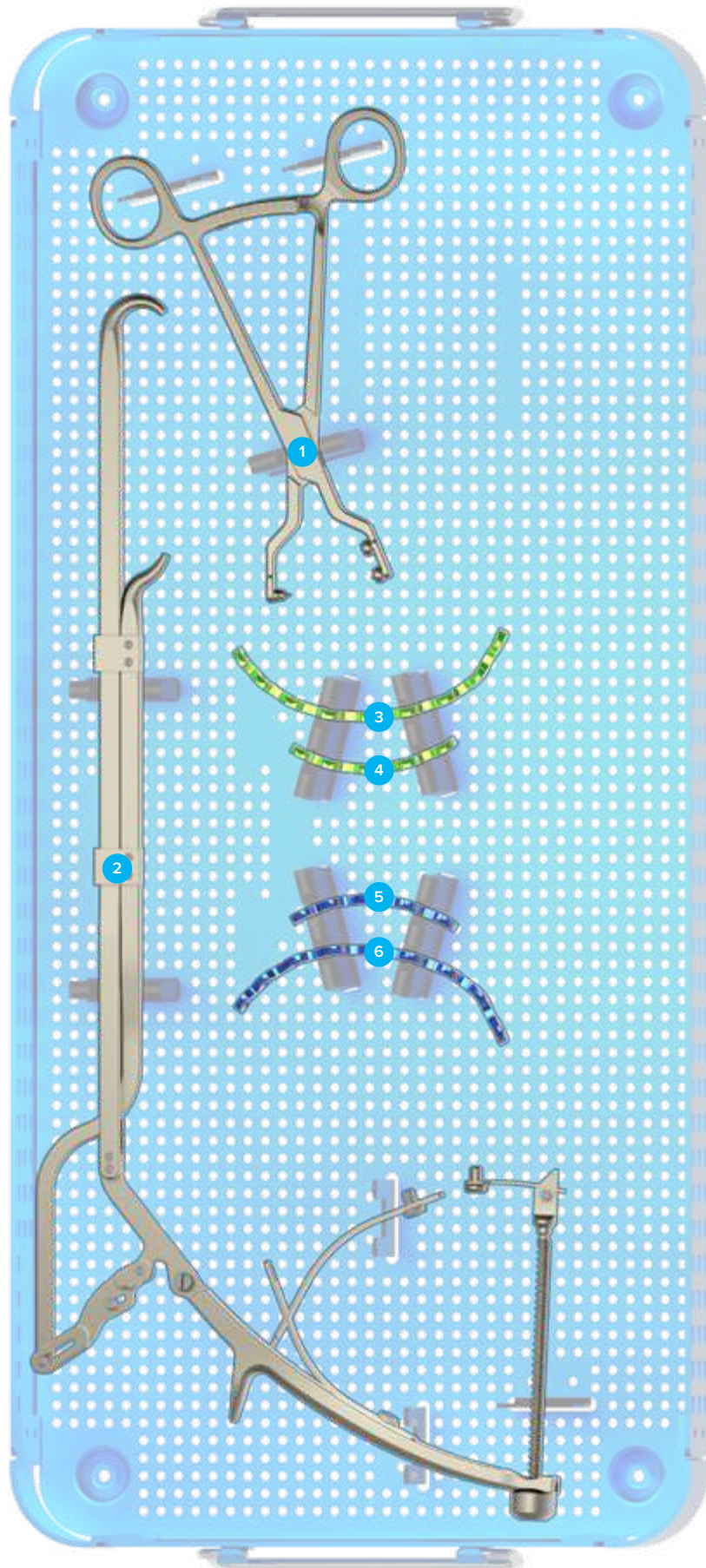
Anterior Pelvic Plates

1	Pubic Symphysis Plate, 6 Hole	70-0451	5	Quadrilateral Surface Plate, Right	70-0436
2	Pubic Symphysis Plate, 4 Hole	70-0450	6	Quadrilateral Surface Plate, Left	70-0435
3	Anterior Brim Plate, 14 Hole, Right	70-0434	7	Anterior Brim Plate, 12 Hole, Left	70-0431
4	Anterior Brim Plate, 12 Hole, Right	70-0432	8	Anterior Brim Plate, 14 Hole, Left	70-0433
			9	Superior Sacroiliac Plate, 4 Hole	70-0452



Ordering Information [continued]

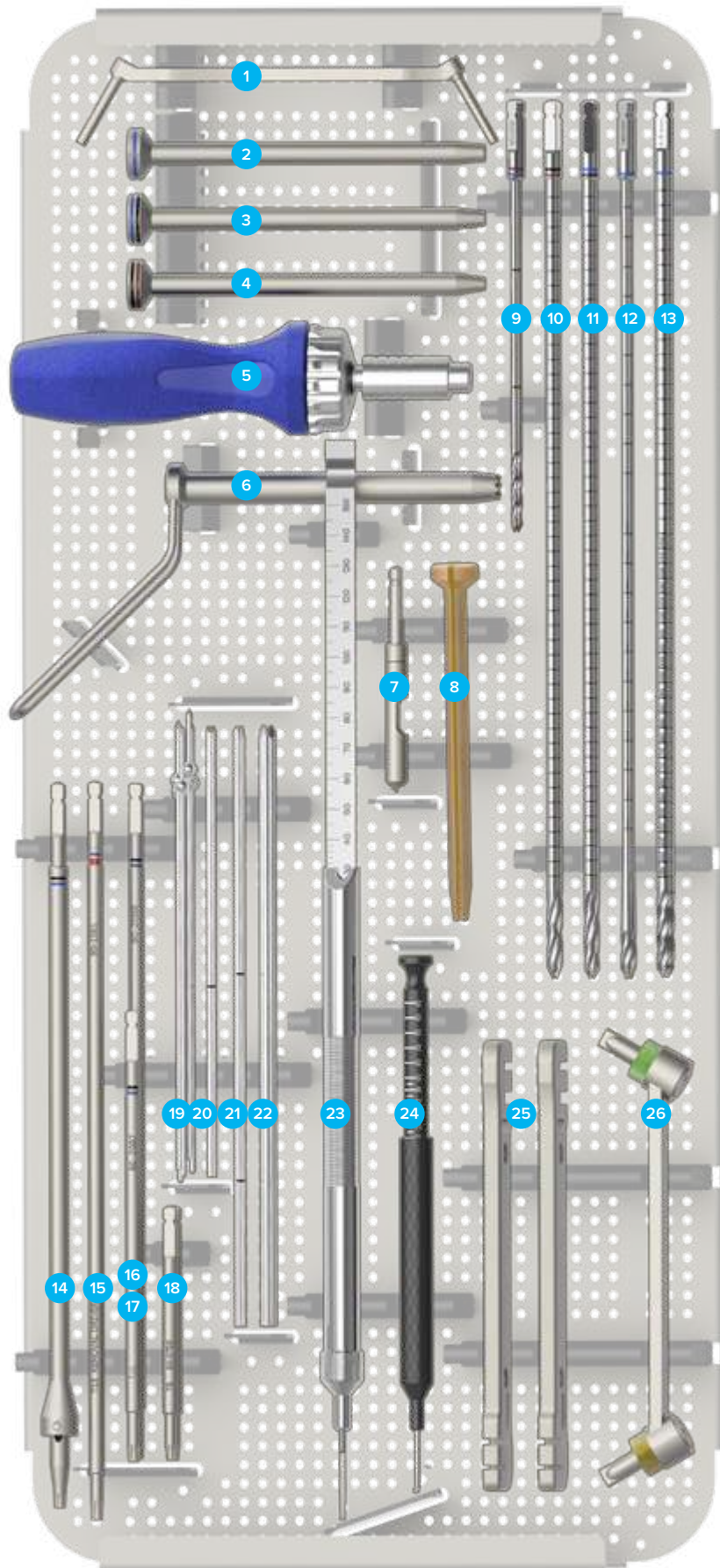
Tray Components			
Instrumentation		Intrapelvic Plates	
1	Intrapelvic Plate Reduction Clamp	80-1152	
2	Intrapelvic Reduction Clamp	80-1126	
			3
			Intrapelvic Plate 9-Hole, Right
			70-0440
			4
			Intrapelvic Plate 5-Hole, Right
			70-0438
			5
			Intrapelvic Plate 5-Hole, Left
			70-0437
			6
			Intrapelvic Plate 9-Hole, Left
			70-0439



Ordering Information [continued]

Tray Components			
Instrumentation			
1	2.0 mm/2.8 mm Thin Drill Guide	PL-2118	
2	4.3 mm Drill Guide, Long	80-1138	
3	3.5 mm Drill Guide, Long	80-1137	
4	2.8 mm Drill Guide, Long	80-1136	
5	Small Ratchet Handle with Quick Release Connection	80-0398	
6	Soft Tissue Protector, Long	80-1135	
7	7 mm Bone Graft Drill Assembly	PL-BG07	
8	3.5 mm Flexible Drill Guide, Long	80-1139	
9	2.0 mm Quick Release Drill	80-0318	
10	2.8 mm Quick Release Drill, Long	80-1130	
11	3.5 mm Quick Release Drill, Long	80-1131	
12	3.5 mm Quick Release Flexible Drill, Long	80-1132	
13	4.3 mm Quick Release Drill, Long	80-1133	
14	T15 Stick Fit Toggling Hexalobe Driver		80-1129
15	T15 Hexalobe Driver Tip, Long		80-1561
16	T15 Stick Fit Hexalobe Driver, 6 Inch		80-2087
17	T15 Stick Fit Hexalobe Driver, 9 Inch		80-2088
18	T8 Stick Fit Hexalobe Driver		80-0759
19	Plate Tack, Long		80-1140
20	.045" x 6" ST Guide Wire*		WS-1106ST
21	.062" x 8" Single Trocar Guide Wire*		80-0413
22	.094" x 8" Single Trocar Guide Wire*		WS-2408ST
23	Depth Gauge 10–150 mm		80-1134
24	Depth Gauge 6–65 mm		80-0623
25	Plate Bender, Large		PL-2045
26	Offset Drill Guide		PL-2095

*Also used as a K-wire

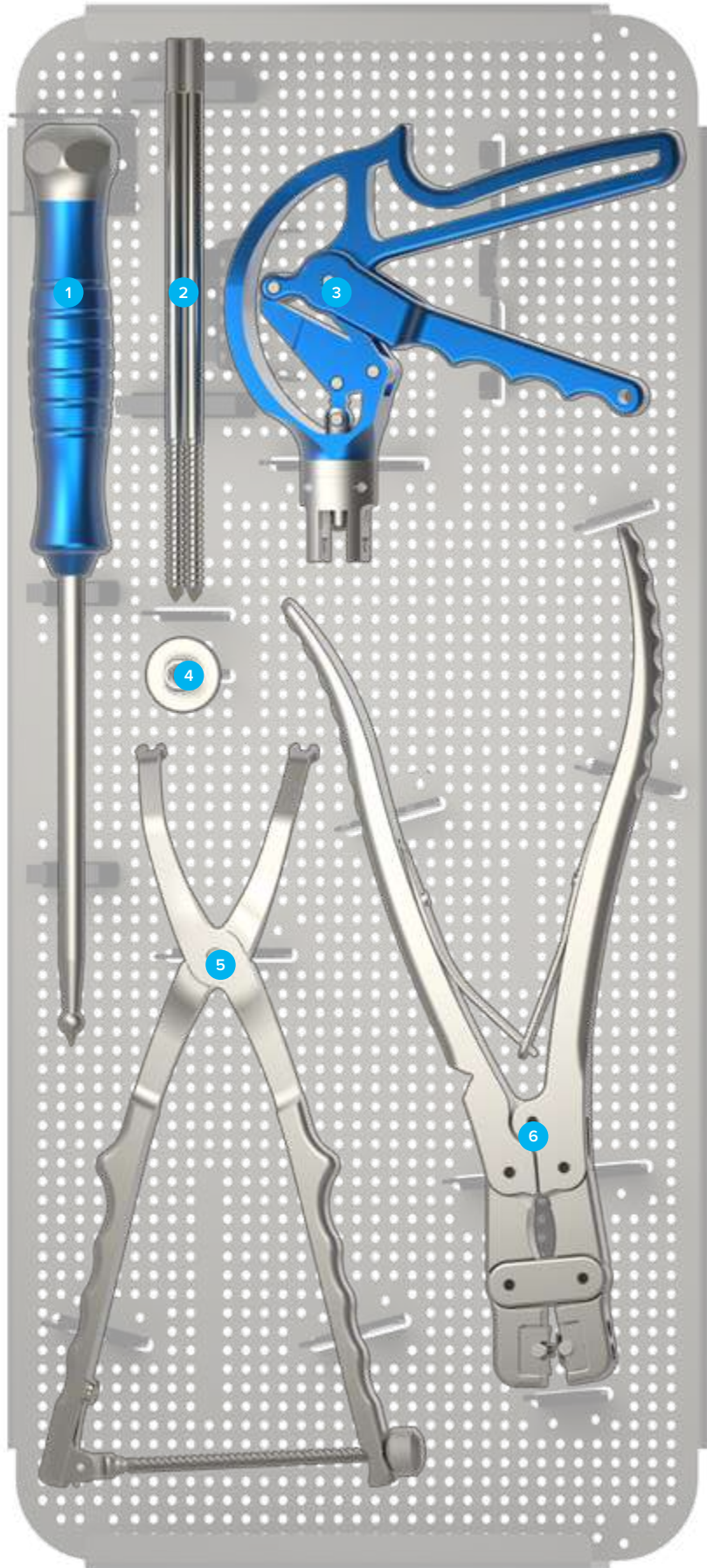


Ordering Information [continued]

Tray Components

Instrumentation

1	Straight Ball Spike With Impact Cap	80-1124	4	Ball Spike Crown	80-2011
2	Schanz Pin 6 mm x 190 mm	80-2012	5	Reduction Forceps, 3.5 mm Screws	80-1127
3	Pelvic Plate Bending Pliers	80-1141	6	Plate Cutters	80-1143

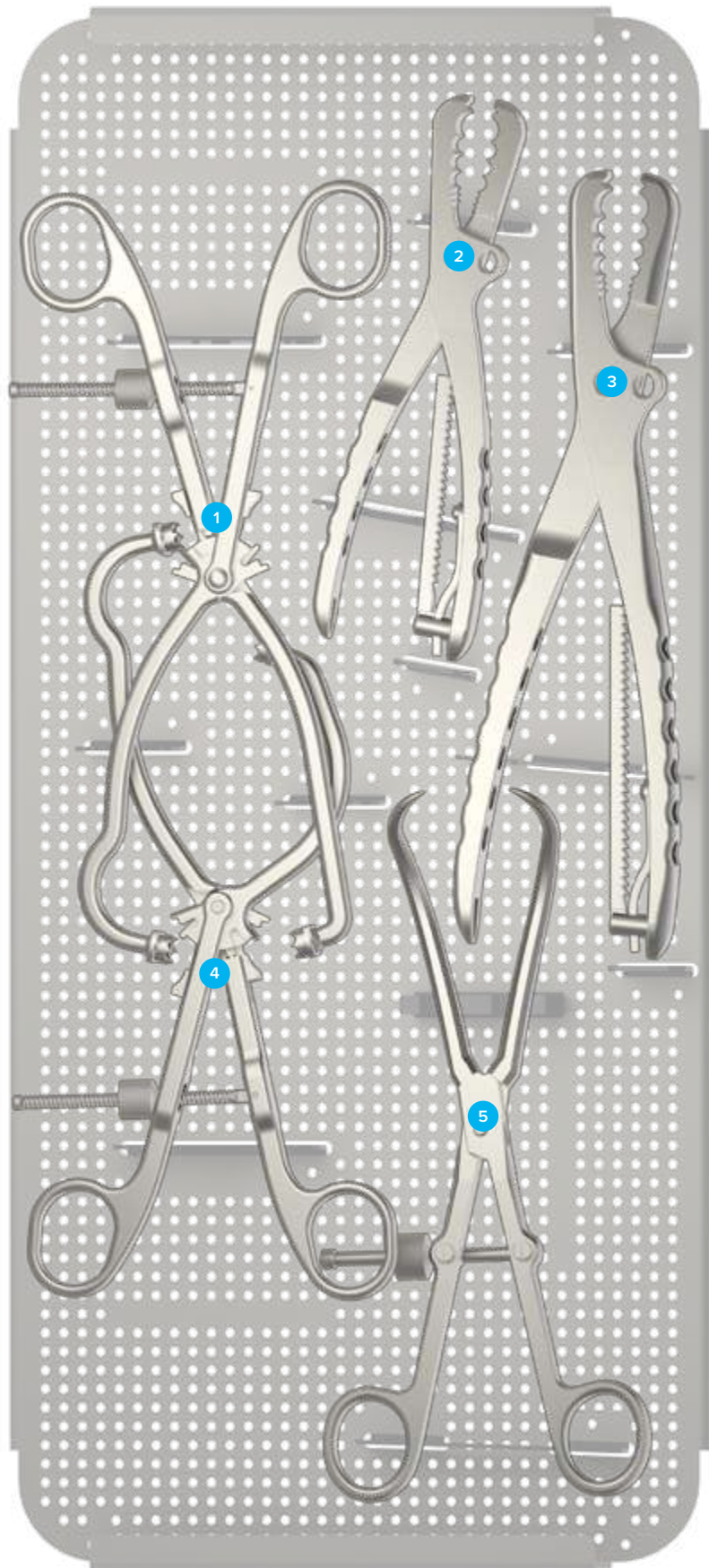


Ordering Information [continued]

Tray Components

Instrumentation

1 Adjustable Handle Clamp	80-1145	4 Offset Adjustable Handle Clamp	80-1146
2 Small Farabeuf Pelvic Forceps	80-1122	5 Large Bone Reduction Forceps	80-1147
3 Large Farabeuf Pelvic Forceps	80-1123		

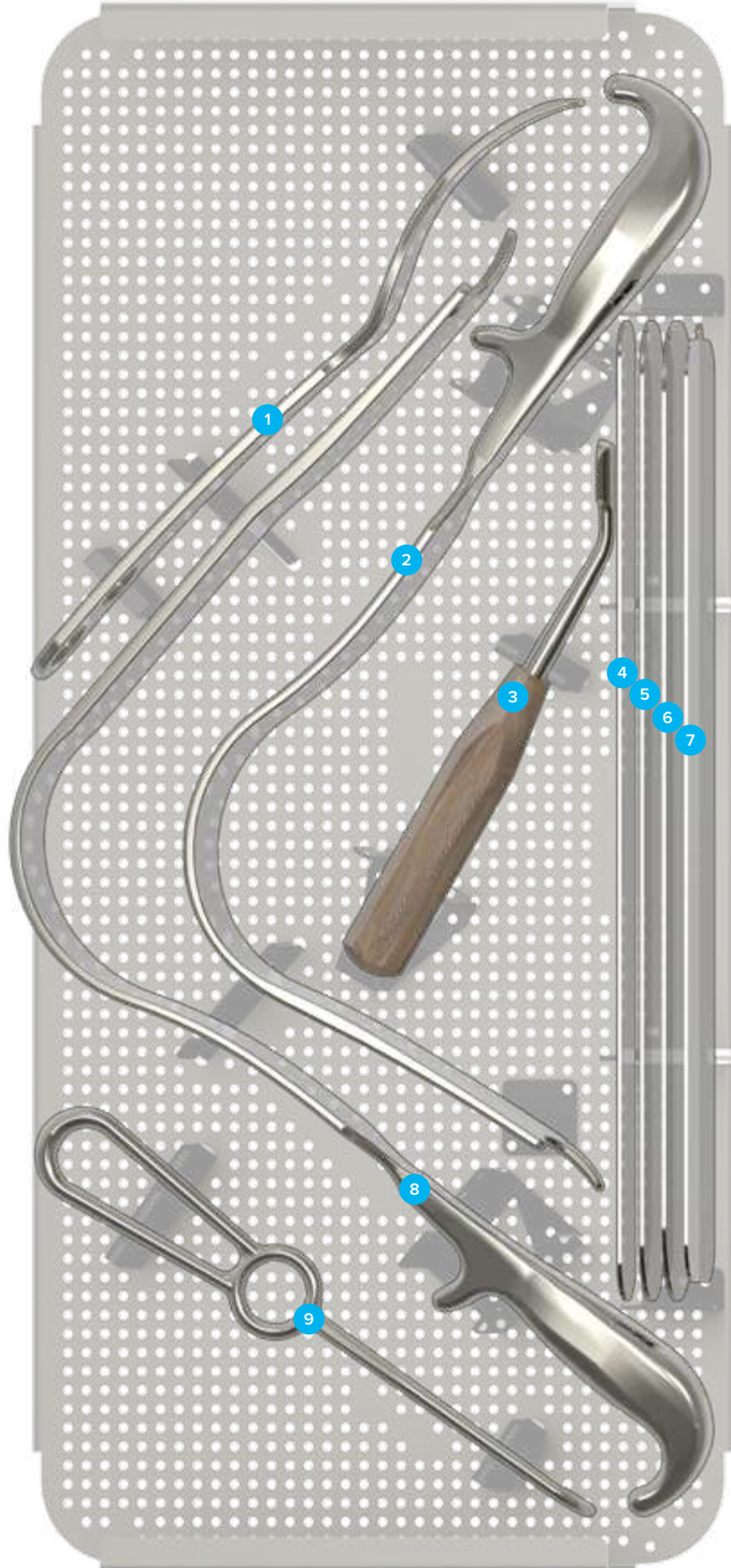


Ordering Information [continued]

Tray Components

Instrumentation

1	Blunt Pelvic Retractor	80-1125	6	Large Malleable Retractor	80-1150
2	Sciatic Nerve Retractor	80-1153	7	Large Pointed Malleable Retractor	80-1151
3	Periosteal Elevator 14 mm Width, Curved	80-1144	8	Sciatic Nerve Retractor, Long	80-1154
4	Small Malleable Retractor	80-1148	9	Bone Hook, Large	80-1121
5	Medium Malleable Retractor	80-1149			



Ordering Information [continued]

Screws			
2.7 mm Nonlocking Hexalobe Screws			
2.7 mm x 10 mm Nonlocking Hexalobe Screw	30-0344	2.7 mm x 22 mm Nonlocking Hexalobe Screw	30-0350
2.7 mm x 12 mm Nonlocking Hexalobe Screw	30-0345	2.7 mm x 24 mm Nonlocking Hexalobe Screw	30-0351
2.7 mm x 14 mm Nonlocking Hexalobe Screw	30-0346	2.7 mm x 26 mm Nonlocking Hexalobe Screw	30-0352
2.7 mm x 16 mm Nonlocking Hexalobe Screw	30-0347	2.7 mm x 28 mm Nonlocking Hexalobe Screw	30-0353
2.7 mm x 18 mm Nonlocking Hexalobe Screw	30-0348	2.7 mm x 30 mm Nonlocking Hexalobe Screw	30-0354
2.7 mm x 20 mm Nonlocking Hexalobe Screw	30-0349	2.7 mm x 32 mm Nonlocking Hexalobe Screw	30-0355
3.5 mm Nonlocking Hexalobe Screws			
3.5 mm x 10 mm Nonlocking Hexalobe Screw	30-0256	3.5 mm x 60 mm Nonlocking Hexalobe Screw	30-0275
3.5 mm x 12 mm Nonlocking Hexalobe Screw	30-0257	3.5 mm x 65 mm Nonlocking Hexalobe Screw	30-0276
3.5 mm x 14 mm Nonlocking Hexalobe Screw	30-0258	3.5 mm x 70 mm Nonlocking Hexalobe Screw	30-0877
3.5 mm x 16 mm Nonlocking Hexalobe Screw	30-0259	3.5 mm x 75 mm Nonlocking Hexalobe Screw	30-0878
3.5 mm x 18 mm Nonlocking Hexalobe Screw	30-0260	3.5 mm x 80 mm Nonlocking Hexalobe Screw	30-0879
3.5 mm x 20 mm Nonlocking Hexalobe Screw	30-0261	3.5 mm x 85 mm Nonlocking Hexalobe Screw	30-0880
3.5 mm x 22 mm Nonlocking Hexalobe Screw	30-0262	3.5 mm x 90 mm Nonlocking Hexalobe Screw	30-0881
3.5 mm x 24 mm Nonlocking Hexalobe Screw	30-0263	3.5 mm x 95 mm Nonlocking Hexalobe Screw	30-0882
3.5 mm x 26 mm Nonlocking Hexalobe Screw	30-0264	3.5 mm x 100 mm Nonlocking Hexalobe Screw	30-0883
3.5 mm x 28 mm Nonlocking Hexalobe Screw	30-0265	3.5 mm x 105 mm Nonlocking Hexalobe Screw	30-0884
3.5 mm x 30 mm Nonlocking Hexalobe Screw	30-0266	3.5 mm x 110 mm Nonlocking Hexalobe Screw	30-0885
3.5 mm x 32 mm Nonlocking Hexalobe Screw	30-0267	3.5 mm x 115 mm Nonlocking Hexalobe Screw	30-0886
3.5 mm x 34 mm Nonlocking Hexalobe Screw	30-0268	3.5 mm x 120 mm Nonlocking Hexalobe Screw	30-0887
3.5 mm x 36 mm Nonlocking Hexalobe Screw	30-0269	3.5 mm x 125 mm Nonlocking Hexalobe Screw	30-0888
3.5 mm x 38 mm Nonlocking Hexalobe Screw	30-0270	3.5 mm x 130 mm Nonlocking Hexalobe Screw	30-0889
3.5 mm x 40 mm Nonlocking Hexalobe Screw	30-0271	3.5 mm x 135 mm Nonlocking Hexalobe Screw	30-0890
3.5 mm x 45 mm Nonlocking Hexalobe Screw	30-0272	3.5 mm x 140 mm Nonlocking Hexalobe Screw	30-0891
3.5 mm x 50 mm Nonlocking Hexalobe Screw	30-0273	3.5 mm x 145 mm Nonlocking Hexalobe Screw	30-0892
3.5 mm x 55 mm Nonlocking Hexalobe Screw	30-0274	3.5 mm x 150 mm Nonlocking Hexalobe Screw	30-0893

Ordering Information [continued]

Screws

4.3 mm Hexalobe Column Screws

4.3 mm x 50 mm Hexalobe Column Screw	30-0894
4.3 mm x 55 mm Hexalobe Column Screw	30-0895
4.3 mm x 60 mm Hexalobe Column Screw	30-0896
4.3 mm x 65 mm Hexalobe Column Screw	30-0897
4.3 mm x 70 mm Hexalobe Column Screw	30-0898
4.3 mm x 75 mm Hexalobe Column Screw	30-0899
4.3 mm x 80 mm Hexalobe Column Screw	30-0900
4.3 mm x 85 mm Hexalobe Column Screw	30-0901
4.3 mm x 90 mm Hexalobe Column Screw	30-0902
4.3 mm x 95 mm Hexalobe Column Screw	30-0903
4.3 mm x 100 mm Hexalobe Column Screw	30-0904
4.3 mm x 105 mm Hexalobe Column Screw	30-0905
4.3 mm x 110 mm Hexalobe Column Screw	30-0906
4.3 mm x 115 mm Hexalobe Column Screw	30-0907
4.3 mm x 120 mm Hexalobe Column Screw	30-0908
4.3 mm x 125 mm Hexalobe Column Screw	30-0909
4.3 mm x 130 mm Hexalobe Column Screw	30-0910
4.3 mm x 135 mm Hexalobe Column Screw	30-0911
4.3 mm x 140 mm Hexalobe Column Screw	30-0912
4.3 mm x 145 mm Hexalobe Column Screw	30-0913
4.3 mm x 150 mm Hexalobe Column Screw	30-0914



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