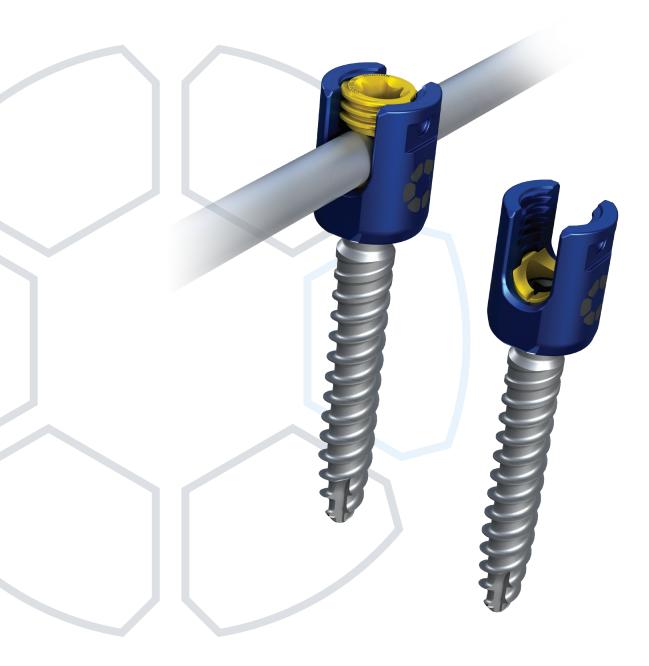
PRODIGYTM PEDICLE SCREW SYSTEM





Surgical Technique Guide

PRODIGY[™] PEDICLE SCREW SYSTEM

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Disclaimer

The surgical technique shown is for illustrative purposes only. Proper surgical procedure is the responsibility of the medical professional. Please reference the package insert for additional information and system instructions.

PRODIGY[™] Pedicle Screw System

The Prodigy Polyaxial Open Pedicle Screw System is a posterior spinal fixation system designed to enhance the surgical experience by providing surgeons with its comprehensive implant offering and ergonomically designed instrumentation. The Prodigy Pedicle Screw system was thoughtfully designed to handle correction maneuvers through the design of the friction fit tulip head and low profile. The Prodigy Pedicle Screw System is intended to address numerous pathologies for the thoracic and lumbar spine while facilitating biomechanical strength and surgical simplicity.



Offset Connectors

- 90° lateral offset Ø5.5mm rod
- Open and closed head options available
- Connects to a Ø5.5mm rod
- Accepts the same set screw as the pedicle screws
- Flanged and smooth options



PRODIGY[™] Pedicle Screw System



	Non-Can	nulated Pol	yaxial Pedicle Scre	ws	
Catalog Number	Description	Quantity	Catalog Number	Description	Quantity
C504-4525	4.5 x 25mm PEDICLE SCREW	*	C504-6535	6.5 x 35mm PEDICLE SCREW	4
C504-4530	4.5 x 30mm PEDICLE SCREW	*	C504-6540	6.5 x 40mm PEDICLE SCREW	8
C504-4535	4.5 x 35mm PEDICLE SCREW	*	C504-6545	6.5 x 45mm PEDICLE SCREW	8
C504-4540	4.5 x 40mm PEDICLE SCREW	*	C504-6550	6.5 x 50mm PEDICLE SCREW	8
C504-4545	4.5 x 45mm PEDICLE SCREW	*	C504-6555	6.5 x 55mm PEDICLE SCREW	4
C504-4550	4.5 x 50mm PEDICLE SCREW	*	C504-7525	7.5 x 25mm PEDICLE SCREW	*
C504-4555	4.5 x 55mm PEDICLE SCREW	*	C504-7530	7.5 x 30mm PEDICLE SCREW	*
C504-5525	5.5 x 25mm PEDICLE SCREW	*	C504-7535	7.5 x 35mm PEDICLE SCREW	4
C504-5530	5.5 x 30mm PEDICLE SCREW	2	C504-7540	7.5 x 40mm PEDICLE SCREW	8
C504-5535	5.5 x 35mm PEDICLE SCREW	4	C504-7545	7.5 x 45mm PEDICLE SCREW	8
C504-5540	5.5 x 40mm PEDICLE SCREW	8	C504-7550	7.5 x 50mm PEDICLE SCREW	6
C504-5545	5.5 x 45mm PEDICLE SCREW	8	C504-7555	7.5 x 55mm PEDICLE SCREW	4
C504-5550	5.5 x 50mm PEDICLE SCREW	6	C504-8540	8.5 x 40mm PEDICLE SCREW	*
C504-5555	5.5 x 55mm PEDICLE SCREW	*	C504-8545	8.5 x 45mm PEDICLE SCREW	*
C504-6525	6.5 x 25mm PEDICLE SCREW	*	C504-8550	8.5 x 50mm PEDICLE SCREW	*
C504-6530	6.5 x 30mm PEDICLE SCREW	2	C504-8555	8.5 x 55mm PEDICLE SCREW	*

PRODIGY[™] Pedicle Screw System

		Cannulated Polyaxial Pedicle Screws	
ľ	Catalog Number	Description	Quantity
	C504-5530-C	5.5 x 30mm CANNULATED PEDICLE SCREW	*
	C504-5535-C	5.5 x 35mm CANNULATED PEDICLE SCREW	*
	C504-5540-C	5.5 x 40mm CANNULATED PEDICLE SCREW	*
	C504-5545-C	5.5 x 45mm CANNULATED PEDICLE SCREW	*
	C504-5550-C	5.5 x 50mm CANNULATED PEDICLE SCREW	*
	C504-5555-C	5.5 x 55mm CANNULATED PEDICLE SCREW	*
1	C504-6530-C	6.5 x 30mm CANNULATED PEDICLE SCREW	*
1	C504-6535-C	6.5 x 35mm CANNULATED PEDICLE SCREW	*
	C504-6540-C	6.5 x 40mm CANNULATED PEDICLE SCREW	*
	C504-6545-C	6.5 x 45mm CANNULATED PEDICLE SCREW	*
	C504-6550-C	6.5 x 50mm CANNULATED PEDICLE SCREW	*
	C504-6555-C	6.5 x 55mm CANNULATED PEDICLE SCREW	*
l	C504-7530-C	7.5 x 30mm CANNULATED PEDICLE SCREW	*
	C504-7535-C	7.5 x 35mm CANNULATED PEDICLE SCREW	*
	C504-7540-C	7.5 x 40mm CANNULATED PEDICLE SCREW	*
	C504-7545-C	7.5 x 45mm CANNULATED PEDICLE SCREW	*
	C504-7550-C	7.5 x 50mm CANNULATED PEDICLE SCREW	*
	C504-7555-C	7.5 x 55mm CANNULATED PEDICLE SCREW	*



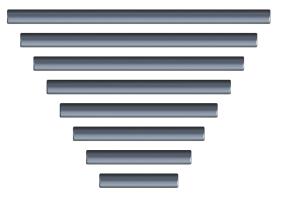
Reduction Polyaxial Pedicle Screws

Catalog Number	Description	Quantity
C514-5525	5.5 x 25mm REDUCTION PEDICLE SCREW	*
C514-5530	5.5 x 30mm REDUCTION PEDICLE SCREW	*
C514-5535	5.5 x 35mm REDUCTION PEDICLE SCREW	*
C514-5540	5.5 x 40mm REDUCTION PEDICLE SCREW	*
C514-5545	5.5 x 45mm REDUCTION PEDICLE SCREW	*
C514-5550	5.5 x 50mm REDUCTION PEDICLE SCREW	*
C514-5555	5.5 x 55mm REDUCTION PEDICLE SCREW	*
C514-6525	6.5 x 25mm REDUCTION PEDICLE SCREW	*
C514-6530	6.5 x 30mm REDUCTION PEDICLE SCREW	*
C514-6535	6.5 x 35mm REDUCTION PEDICLE SCREW	*
C514-6540	6.5 x 40mm REDUCTION PEDICLE SCREW	*
C514-6545	6.5 x 45mm REDUCTION PEDICLE SCREW	*
C514-6550	6.5 x 50mm REDUCTION PEDICLE SCREW	*
C514-6555	6.5 x 55mm REDUCTION PEDICLE SCREW	*
C514-7525	7.5 x 25mm REDUCTION PEDICLE SCREW	*
C514-7530	7.5 x 30mm REDUCTION PEDICLE SCREW	*
C514-7535	7.5 x 35mm REDUCTION PEDICLE SCREW	*
C514-7540	7.5 x 40mm REDUCTION PEDICLE SCREW	*
C514-7545	7.5 x 45mm REDUCTION PEDICLE SCREW	*
C514-7550	7.5 x 50mm REDUCTION PEDICLE SCREW	*
C514-7555	7.5 x 55mm REDUCTION PEDICLE SCREW	*

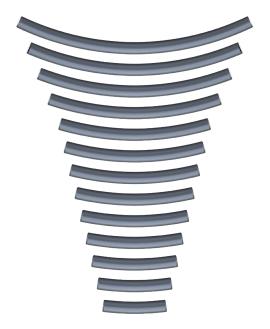


PRODIGY[™] Pedicle Screw System

Ø5.5mm Titanium Straight Rods				
Catalog Number	Description	Quantity		
C504-R55-030	5.5 x 30mm STRAIGHT ROD	*		
C504-R55-040	5.5 x 40mm STRAIGHT ROD	*		
C504-R55-050	5.5 x 50mm STRAIGHT ROD	*		
C504-R55-060	5.5 x 60mm STRAIGHT ROD	*		
C504-R55-070	5.5 x 70mm STRAIGHT ROD	*		
C504-R55-080	5.5 x 80mm STRAIGHT ROD	*		
C504-R55-090	5.5 x 90mm STRAIGHT ROD	*		
C504-R55-100	5.5 x 100mm STRAIGHT ROD	*		
C504-R55-400	5.5 x 400mm STRAIGHT ROD	2		



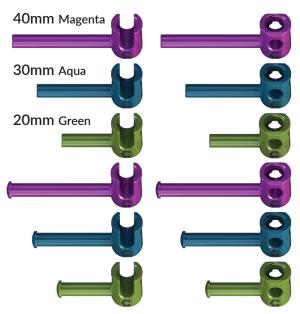
Ø5.	5mm Titanium Curved Rods	
Catalog Number	Description	Quantity
C504-R55-030C	5.5 x 30mm CURVED ROD	3
C504-R55-035C	5.5 x 35mm CURVED ROD	2
C504-R55-040C	5.5 x 40mm CURVED ROD	3
C504-R55-045C	5.5 x 45mm CURVED ROD	2
C504-R55-050C	5.5 x 50mm CURVED ROD	3
C504-R55-055C	5.5 x 55mm CURVED ROD	2
C504-R55-060C	5.5 x 60mm CURVED ROD	3
C504-R55-065C	5.5 x 65mm CURVED ROD	2
C504-R55-070C	5.5 x 70mm CURVED ROD	3
C504-R55-080C	5.5 x 80mm CURVED ROD	2
C504-R55-090C	5.5 x 90mm CURVED ROD	2
C504-R55-100C	5.5 x 100mm CURVED ROD	2
C504-R55-110C	5.5 x 110mm CURVED ROD	2
C504-R55-120C	5.5 x 120mm CURVED ROD	*
C504-R55-130C	5.5 x 130mm CURVED ROD	*
C504-R55-150C	5.5 x 150mm CURVED ROD	*



	Set Screws	
Catalog Number	Description	Quantity
C504-001	SET SCREW	20

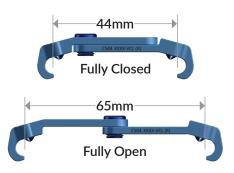


	Offset Connectors	
Catalog Number	Description	Quantity
C554-5520-O	5.5 x 20mm OPEN	*
C554-5530-O	5.5 x 30mm OPEN	*
C554-5540-O	5.5 x 40mm OPEN	*
C554-5520-C	5.5 x 20mm CLOSED	*
C554-5530-C	5.5 x 30mm CLOSED	*
C554-5540-C	5.5 x 40mm CLOSED	*
C554-5520-OF	5.5 x 20mm OPEN FLANGED	*
C554-5530-OF	5.5 x 30mm OPEN FLANGED	*
C554-5540-OF	5.5 x 40mm OPEN FLANGED	*
C554-5520-CF	5.5 x 20mm CLOSED FLANGED	*
C554-5530-CF	5.5 x 30mm CLOSED FLANGED	*
C554-5540-CF	5.5 x 40mm CLOSED FLANGED	*



Variable Crosslinks	
Description	Quantity
VARIABLE CROSSLINK, 34 - 45mm	*
VARIABLE CROSSLINK, 44 - 65mm	*
VARIABLE CROSSLINK, 64 - 85mm	*
	Description VARIABLE CROSSLINK, 34 - 45mm VARIABLE CROSSLINK, 44 - 65mm

Dimensions from Rod to Rod centers.

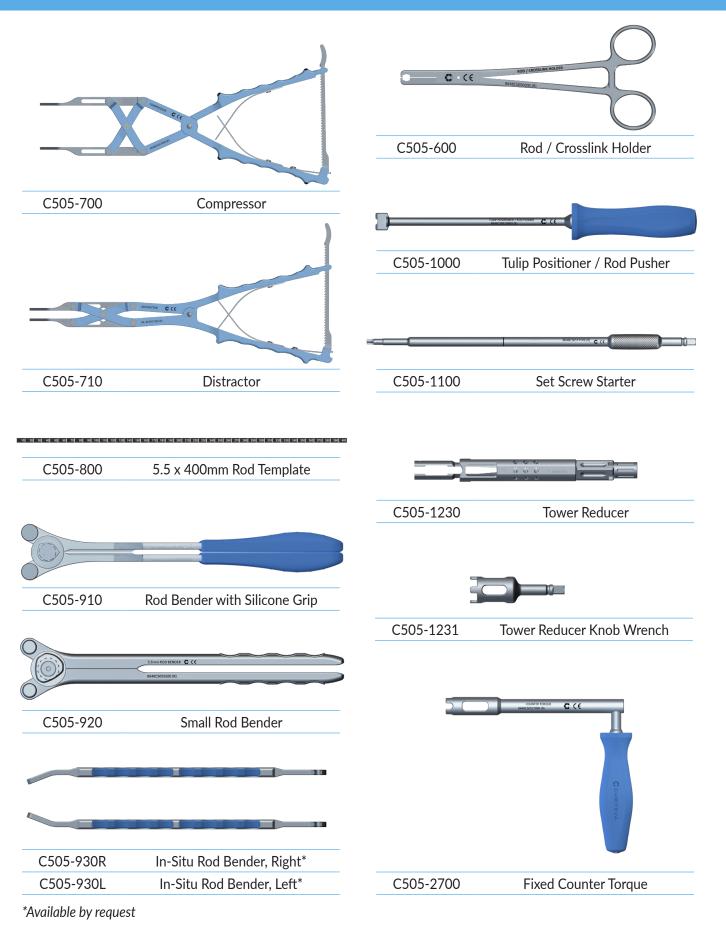


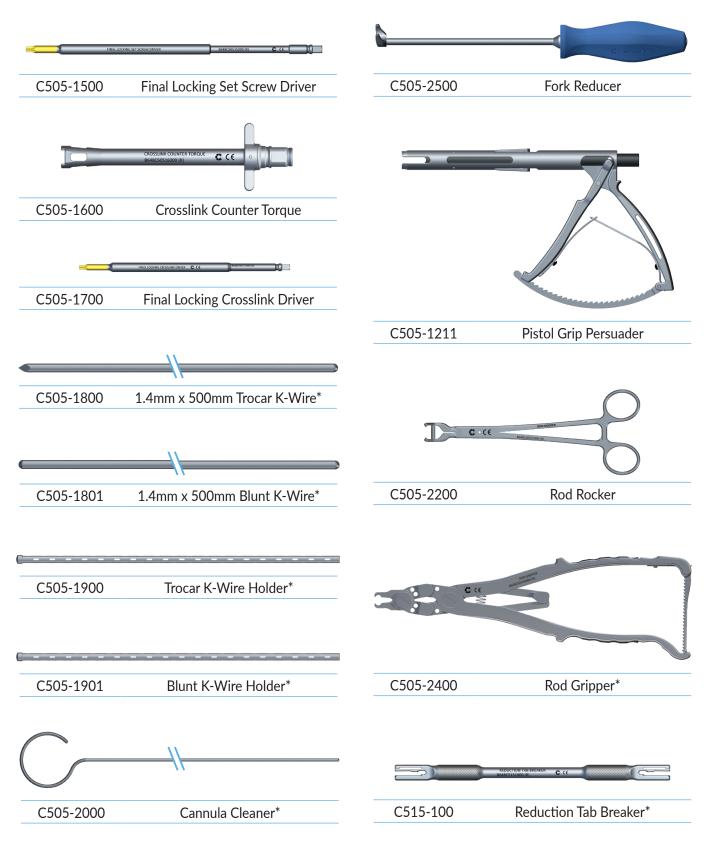


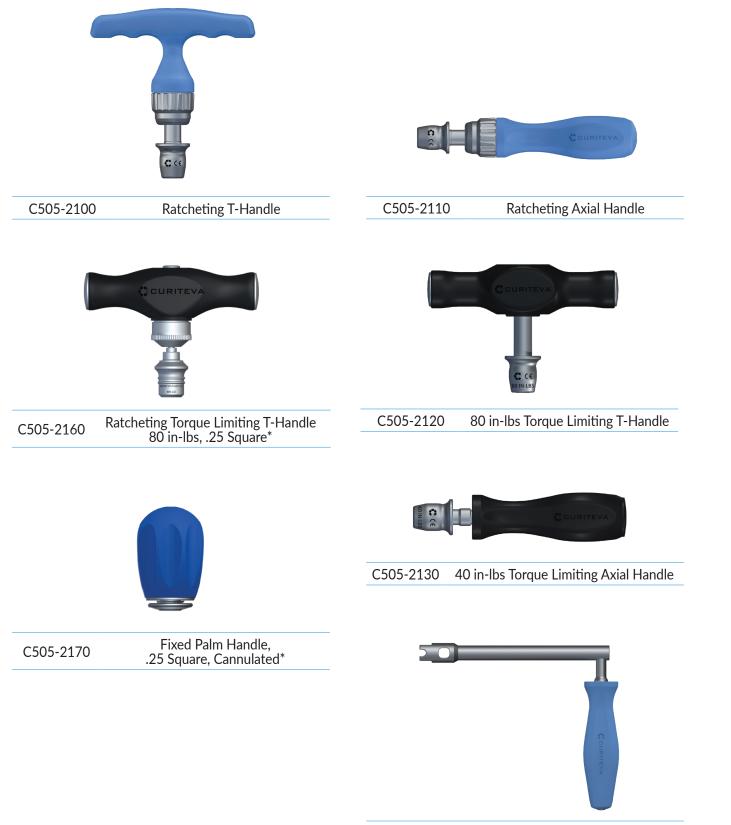
	Axial and Parallel Connectors	
Catalog Number	Description	Quantity
C554-C55-CAX	Closed-Closed Connector	*
C554-C55-CAXL	Closed-Closed Connector, Long	*
C554-C55-OAX	Open-Open Connector	*
C554-C55-CCP	Closed-Closed Parallel Connector	*
C554-C55-OCP	Open-Closed Parallel Connector	*
C554-C55-OOP	Open-Open Parallel Connector	*
C554-C55-TAP	Tulip-Angled Parallel Connector	*
C554-C55-TCP	Tulip-Closed Parallel Connector	*
C554-C55-TTP	Tulip-Tulip Parallel Connector	*

Axial Connectors	Parallel Connectors	Parallel Connectors
C554-C55-CAX Closed-Closed	C554-C55-CCP Closed-Closed	C554-C55-TAP Tulip-Angled
C554-C55-CAXL Closed-Closed, Long	C554-C55-OCP Open-Closed	C554-C55-TCP Tulip-Closed
C554-C55-OAX Open-Open	C554-C55-OOP Open-Open	C554-C55-TTP Tulip-Tulip

			B648C0594002220 (8) € € € €
<u>.</u>	BONE AWL 8648C5051000 (R) C C C		B648C5054002220 (R) C CE
			^{TAP} 8648C5054002220 (H) C €€
C505-100	Bone Awl		ТАР В648/5054002220 (R) С СС
			Тар в648С5054002220 (Л) С СС
			CANNULATED TAP C (€ 8 8 8 8
			BGARCSOSA102220(R) C CE 8 8 8 8
CANNULATED BONE AW	V* B648C5051100 (R) C C C		CANNULAT C (6 8 8 8 8
			Тарѕ
C505-110	Cannulated Bone Awl*	C505-400-45	4.5mm Tap*
		C505-400-55	5.5mm Tap
		C505-400-65	6.5mm Tap
		C505-400-75	7.5mm Tap
		C505-400-85	8.5mm Tap*
		C505-410-55	5.5mm Cannulated Tap*
C505-200	Straight Pedicle Finder	C505-410-65	6.5mm Cannulated Tap*
		C505-410-75	7.5mm Cannulated Tap*
C505-210	Curved Pedicle Finder	⊂†∭ C505-501	Pedicle Screw Driver
C505-210	Curved Pedicle Finder	C505-501	Pedicle Screw Driver
	Curved Pedicle Finder Straight Sounder	C505-501	
C505-210			





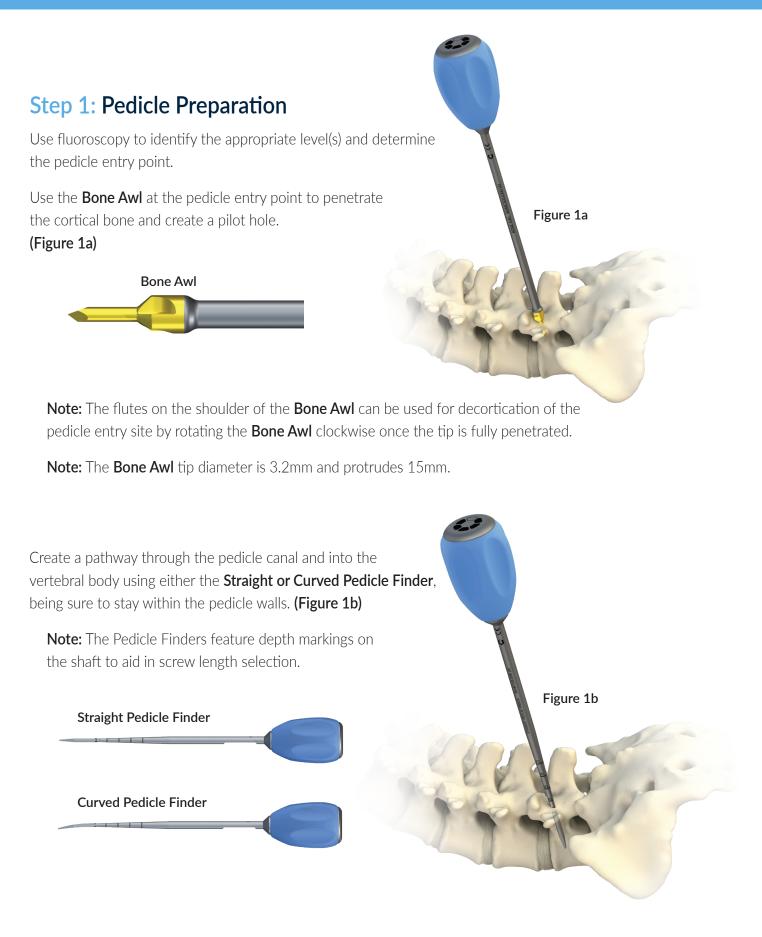


C505-2710 Connector Counter Torque*

PRODIGYTM Surgical Technique

Disclaimer

Steps shown are for Non-Cannulated Polyaxial Screws.

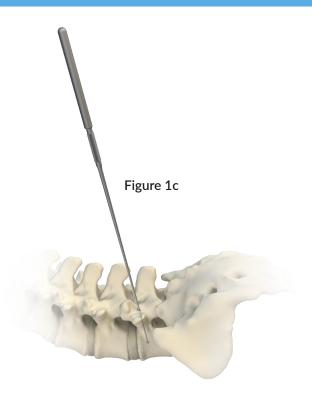


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Use either the **Straight or Curved Sounder** to internally palpate the pedicle walls to ensure its integrity. **(Figure 1c)**

Straight Sounder

Curved Sounder



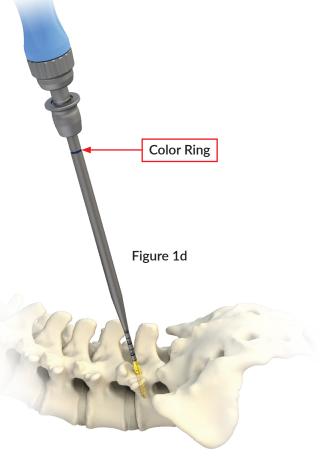
Prodigy Pedicle Screws are self-tapping, but **Taps** are provided as an option. If tapping is required, select the appropriate diameter and connect either the **Ratcheting Axial Handle** or **Ratcheting T-Handle**. Tap to the desired depth. (Figure 1d)

Note: The Taps are color coded to match the corresponding screw diameter tulip color, see table below.

Size	Color
4.5mm	Magenta
5.5mm	Green
6.5mm	Dark Blue
7.5mm	Teal
8.5mm	Sea Foam

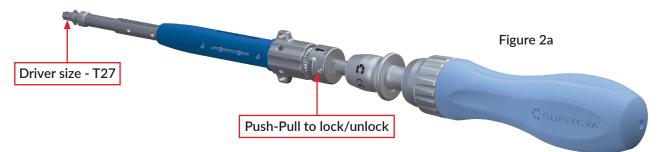
Note: The Taps feature depth markings on the shaft to aid in screw length selection. All Taps have a thread length of 30mm.



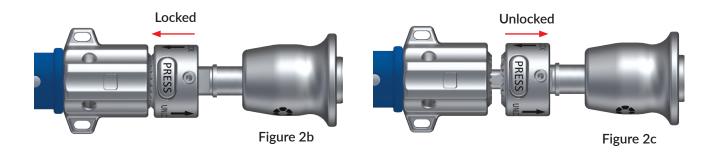


Step 2: Screw Insertion

Connect either the Ratcheting Axial Handle or Ratcheting Torque Limiting T-Handle to the Pedicle Screw Driver. (Figure 2a)



Note: Press and hold the button on the locking knob while pushing the locking knob forward to engage the teeth on the tightening knob. This will prevent the pedicle screw driver sleeve from rotating counter-clockwise, ensuring the sleeve does not prematurely unthread from the pedicle screw during insertion. Move the locking knob in the proximal position if this feature is not desired. **(Figure 2b, 2c)**



- Select the desired Pedicle Screw diameter and length. Insert the distal tip of the Pedicle Screw Driver into the tulip, seating the hexalobe into the screw shank. (Figure 2d)
- With the ratcheting handle in the neutral non-ratcheting position, engage the internal threads of the tulip by rotating the Pedicle Screw Driver knob clockwise until tight. This step should be performed with the screw in the screw caddy or resting upon a sterile surface to avoid premature screw disengagement.

Note: Ensure the Pedicle Screw is fully threaded and fixed coaxial to the **Pedicle Screw Driver** shaft prior to insertion.



- Ensure the chosen **Ratcheting Axial Handle** is in the forward position and drive the Pedicle Screw into the prepared pedicle to the desired depth. (Figure 2e)
- To disengage the **Pedicle Screw Driver** from the Pedicle Screw, secure the **Ratcheting Axial Handle** and rotate the Pedicle Screw Driver knob counterclockwise until the Pedicle Screw Driver sleeve is fully unthreaded from the tulip.

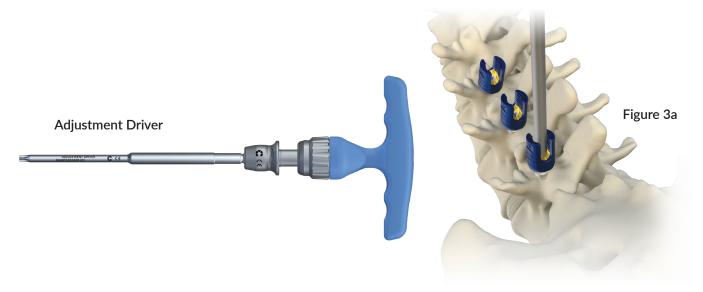
Note: If using the optional locking feature, the locking knob must be pulled and disengaged from the tightening knob before disengaging the driver from the pedicle screw.

• Repeat for all Pedicle Screws supporting the construct.

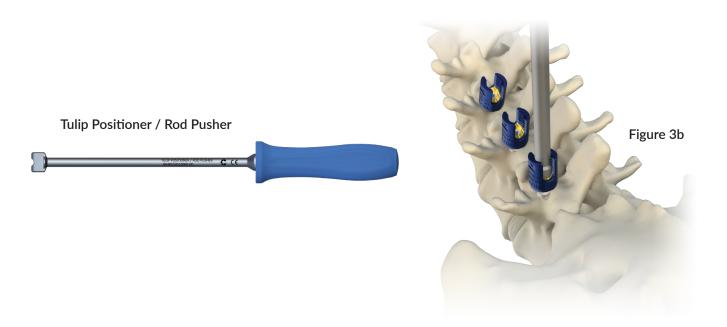


Step 3: Screw Adjustment

The **Adjustment Driver** may be used to adjust the depth of the Pedicle Screw by engaging the hexalobe feature of the screw shank. Either the **Ratcheting Axial Handle** or **Ratcheting T-Handle** can connect to the back of the Adjustment Driver. (Figure 3a)

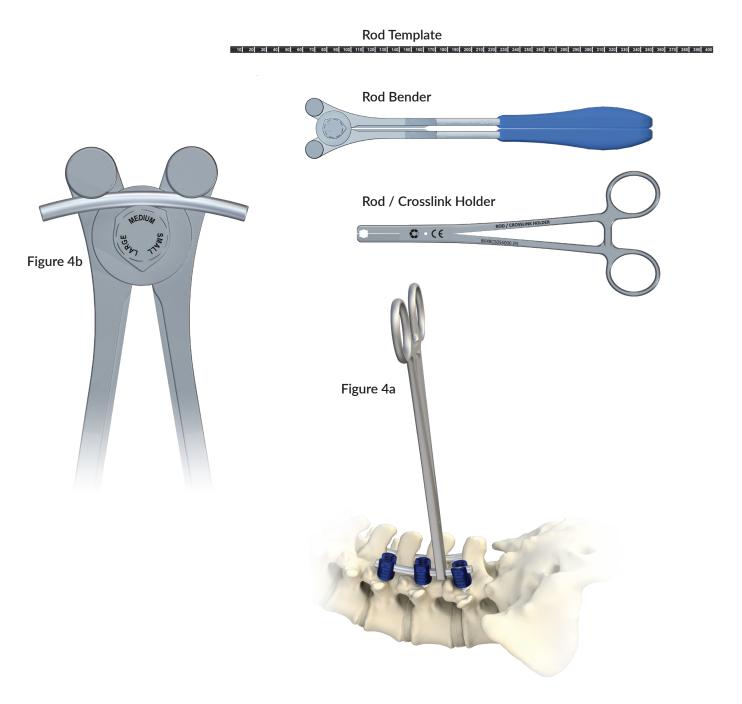


The **Tulip Positioner / Rod Pusher** may be inserted into the tulip of the Pedicle Screw and rotated to adjust the position of the tulip before Rod placement. **(Figure 3b)**

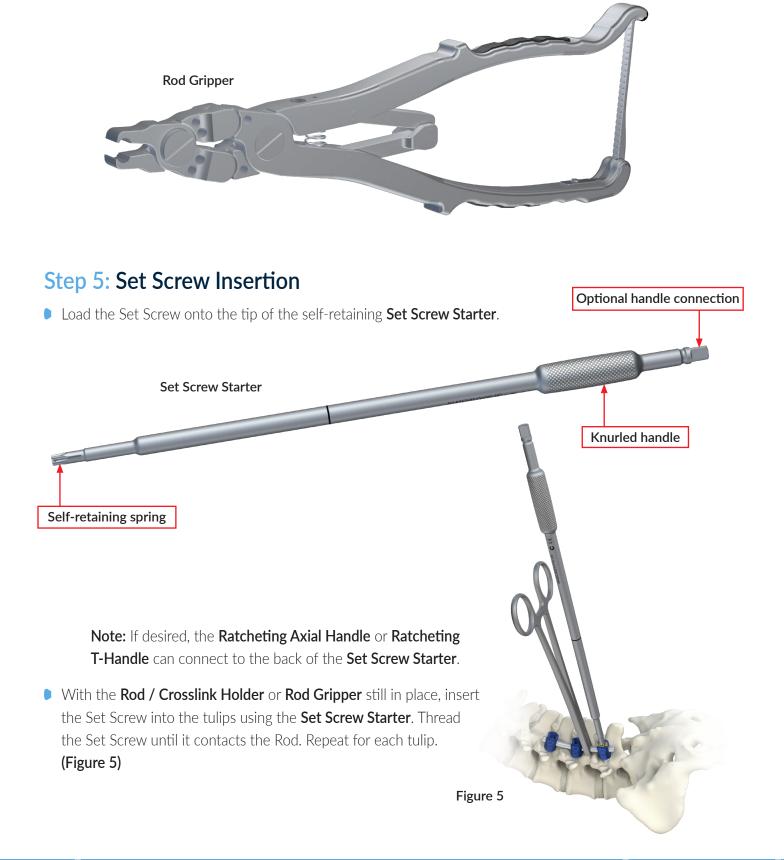


Step 4: Rod Selection and Placement

Select the desired Rod and use the **Rod / Crosslink Holder** to place the Rod into the construct. **(Figure 4a)** A **Rod Bender** may be used to contour the Rod as needed. **(Figure 4b)** A **Rod Template** is available to determine the appropriate Rod contour and length.



Note: Curved Rods are available in the standard tray build. Straight Rods are available by request only.



Note: A Rod Gripper is available by request only to aid in Rod placement/adjustment, shown below.

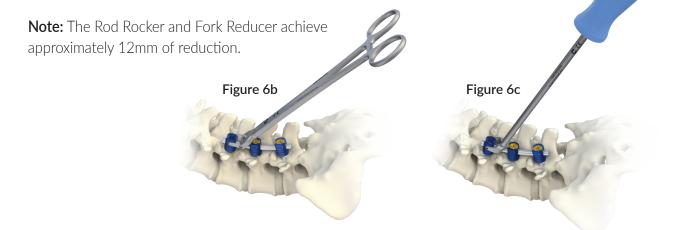
Figure 6a

Step 6: Rod Reduction

The Prodigy Pedicle Screw System offers multiple methods to fully seat the Rod into the Pedicle Screw to allow proper installation of the Set Screw. The surgeon may utilize any of the following methods depending on the anatomy and the level of reduction required.

If minor Rod reduction with mild resistance is required, the **Tulip Positioner / Rod Pusher** may be used to seat the Rod into place. **(Figure 6a)**

The **Rod Rocker (Figure 6b)** or **Fork Reducer (Figure 6c)** may also be used to approximate the Rod into the tulip. Attach the Rod Rocker or Fork Reducer to the tulip by engaging the holes on both sides and lever the Rod until seated into the tulip.



Reduction Pedicle Screws are available as a substitute to the Standard Pedicle Screw, and feature 26mm of thread length for Rod reduction.

Note: When using Reduction Pedicle Screws, the **Extended Tab Pedicle Screw Driver** should be used for quicker engagement, as shown below. The Extended Tab Pedicle Screw Driver is available by request only.

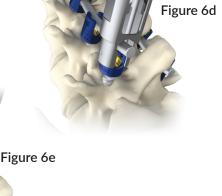


The **Tower Reducer** may be used to reduce the Rod. The Tower Reducer snaps onto the outer diameter of the tulip.

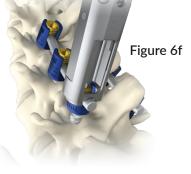
- Ensure the Tower Reducer Tulip Sleeve is positioned proximal by rotating the knob counterclockwise until stopped. (Figure 6c)
 - Tower Reducer Figure 6c
- Align the rod slot of the Tower Reducer with the rod slot of the tulip and press downward to retain within the reducer. (Figure 6d) To ensure proper engagement, rotate the knob slightly to close the tulip sleeve, and gently pull up on the Reducer confirming it is locked onto the screw.
- Reduce the rod by turning the tower reducer knob clockwise. (Figure 6e) Optionally, one may use the tower reducer wrench attached to any t-handle to reduce rod.

Note: The Tower Reducer achieves approximately 40mm of reduction.

- Once the rod is fully seated into the tulip, load the Set Screw onto the tip of the self-retaining Set Screw Starter and pass it through the Tower Reducer. Thread the Set Screw into the tulip until it contacts the Rod. (Figure 6f)
- Once fully reduced, detach by rotating the knob counter-clockwise until the tulip sleeve disassociates from tulip.

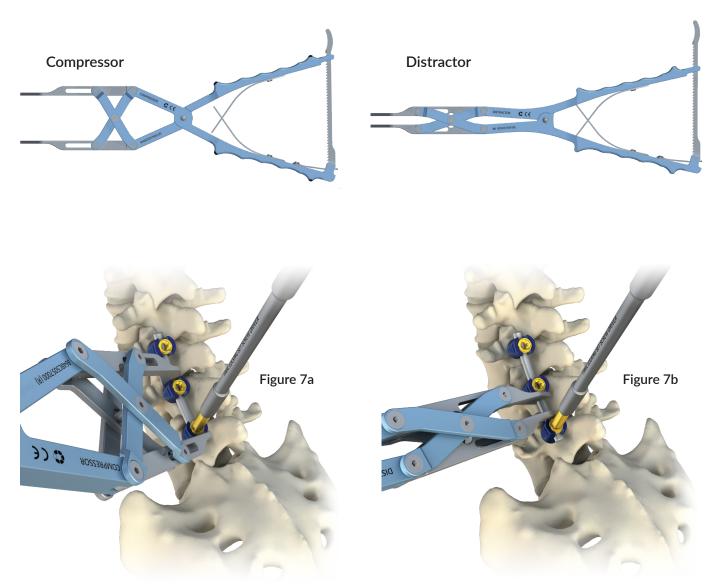


before screw engagement



Step 7: Compression/Distraction

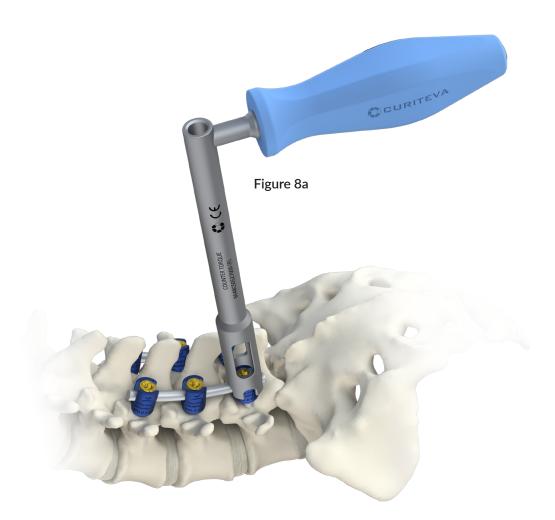
Use the Compressor or Distractor to achieve the desired level of compression or distraction.
 (Figure 7a, 7b)



- Final tighten the desired Set Screw and leave the adjacent Set Screw loose during compression or distraction to allow the loose Pedicle Screw to move along the Rod in the desired direction.
- Tighten the loose Set Screw once the desired compression or distraction is achieved.

Step 8: Final Tightening

• After the Rods and all Set Screws are secured within the tulips, place the **Fixed Counter Torque** over the tulip and seat onto the rod.



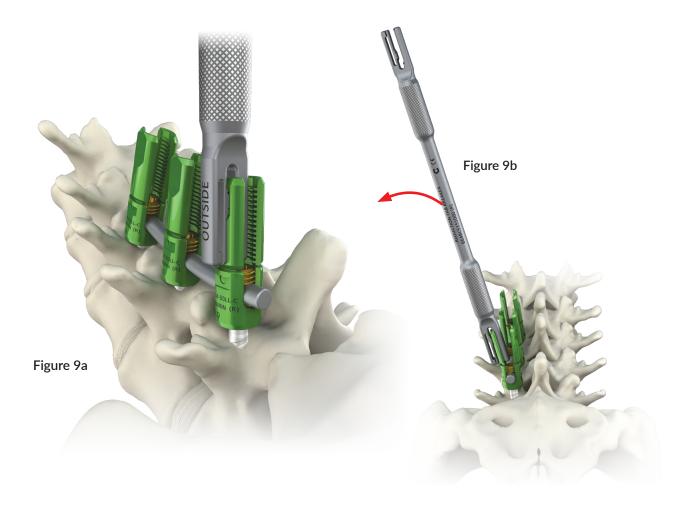
- Attach the **80 in-lbs Torque Limiting T-Handle** or **Ratcheting Torque Limiting T-Handle** to the back of the **Final Locking Set Screw Driver**. (Figure 8a)
- Insert the Final Locking Set Screw Driver through the Counter Torque to engage the hexalobe feature of the Set Screw. (Figure 8b)



- Rotate the 80 in-lbs Torque Limiting T-Handle or Ratcheting Torque Limiting T-Handle clockwise until the handle releases at the 80 in-lbs limit, confirmed with an audible "click".
- Repeat for all Set Screws in the construct.

Step 9: Tab Removal (optional)

- If Reduction Pedicle Screws were used, use the **Reduction Tab Breaker** to remove the extended tabs after final tightening is complete.
- Slide the Reduction Tab Breaker over one extended tab at a time so that the "INSIDE" marking is positioned inside the tulip and the "OUTSIDE" marking is positioned outside the tulip. Ensure the Reduction Tab Breaker is fully seated prior to breaking the tab. (Figure 9a)

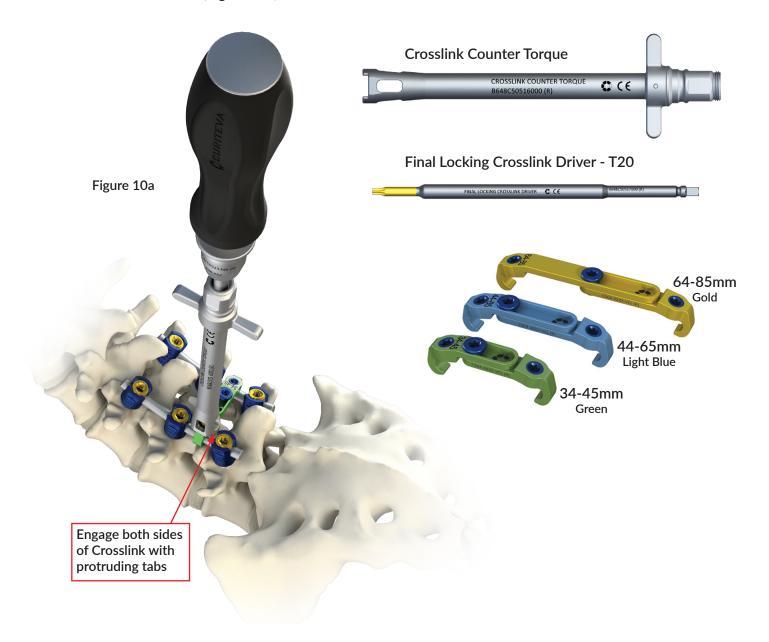


- With one side of the tulip engaged, rock the Reduction Tab Breaker away from the screw medial/lateral to snap off the tab and remove. The Reduction Tab Breaker will retain the tab after it's broken away, and may be flipped to use the opposite end for the other tab. (Figure 9b)
- Repeat for all remaining Reduction Pedicle Screws.

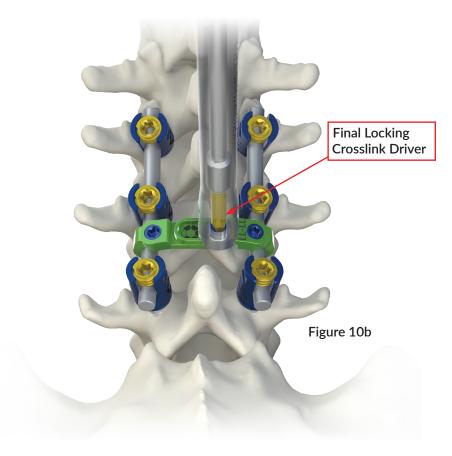
Step 10: Crosslink (optional)

Variable length rod to rod Crosslinks are available for additional torsional rigidity.

- Use the **Rod / Crosslink Holder** to grip the appropriate length Crosslink and position it onto the Rods.
- Ensure both arms of the Crosslink are fully seated on the Rods. It is recommended to tighten the lateral set screws of the Crosslink before the center set screw.
- Place the Crosslink Counter Torque over the lateral set screw of the Crosslink so that the protruding tabs rest on the sides of the crosslink arm.
- Attach the 40 in-lbs Torque Limiting Axial Handle to the back of the Final Locking Crosslink Driver.
- Insert the Final Locking Crosslink Driver through the Crosslink Counter Torque to engage the hexalobe feature of the set screw. (Figure 10a)



- Rotate the 40 in-lbs Torque Limiting Axial Handle clockwise until the handle releases at the 40 in-lbs limit, confirmed with an audible "click".
- Repeat for the lateral set screw on the other arm of the Crosslink.
- Repeat for the center set screw of the Crosslink. (Figure 10b)



Step 11: Offset Connectors (optional)

Open and Closed Offset Connectors are available by request only in 20, 30, and 40mm offset lengths. The offset rod is Ø5.5mm.

- Position the desired size Offset Connector to the Rod and adjacent Pedicle Screw tulip.
- Load a Set Screw onto the **Set Screw Starter**, and thread the Set Screw into the adjacent Pedicle Screw to secure the offset rod of the Offset Connector.
- Use the Set Screw Starter to insert a Set Screw into the Offset Connector, securing the connector to the Rod.
- Final tighten the Set Screws to 80 in-lbs using the same method as the Pedicle Screws. (see step 8)

Parallel and Axial Connectors (optional)

- Position the desired axial or parallel connector to the existing Rod and the new Rod.
- **Note:** A "+" sign near the connector opening indicates a 5.5mm-6.0mm opening.
- For BLUE and GREEN connector openings, use **Final Locking Crosslink Driver** to thread the preloaded Connector or Crosslink Set Screw into the connector to secure the rod. Repeat for each BLUE or GREEN connector opening.
- Note: Sides of the connector anodized in BLUE mate with the DARK BLUE Crosslink Rod Screw. Sides of the connector anodized in GREEN mate with the DARK GREEN Connector Set Screw.
- Final tighten DARK GREEN and DARK BLUE Set Screws to 40 in-lb using the same method as the Crosslinks utilizing the **Crosslink Counter Torque**.
- For GOLD connector openings, load the Set Screw onto the tip of the self-retaining Set Screw Starter and insert the Set Screw into the connector. Thread the Set Screw until it contacts the Rod. Repeat for each GOLD connector opening.
- After the Rods and Set Screws are secured within the GOLD connector openings, place the **Connector Counter Torque** over the tulip and seat onto the rod.
- Final tighten GOLD Set Screws to 80 in-Ib using the same method as the Pedicle Screw Tulips.



Step 12: Implant Removal (optional)

If revision is necessary, Set Screws and Pedicle Screws can be removed using the Adjustment Driver. Engage the drive feature of the Set Screws with the Adjustment Driver and rotate counterclockwise until fully unthreaded. Grasp and remove the rod. Engage the drive feature of the Pedicle Screw shank with the Adjustment Driver and rotate counterclockwise until the screw is removed. The Crosslinks can be removed by loosening the lateral and center set screws using the Final Locking Crosslink Driver.

Set Screws and Offset Connectors can be removed using the Adjustment Driver. Engage the drive feature of the Set Screws with the Adjustment Driver and rotate counterclockwise until fully unthreaded. Grasp the Offset Connector and remove. The Axial and Parallel Connectors with blue and green set screws can be removed by loosening green and blue set screws using the Final Locking Crosslink Driver. Connectors with gold set screws can be removed using the Adjustment Driver. Engage the drive feature of the gold Set Screws with the Adjustment Driver and rotate counterclockwise until fully unthreaded. Grasp the axial or parallel connector and remove.

Indications for Use:

The PRODIGY Pedicle Screw System is intended for posterior, non-cervical pedicle screw fixation (T1-S2/ilium) and hook fixation (T1-L5) in skeletally mature patients as an adjunct to fusion for all of the following indications: degenerative disc disease (defined as discogenic back pain with degeneration of the disc confirmed by history and radiographic studies), spondylolisthesis, trauma (i.e., fracture or dislocation), deformities or curvatures (i.e. scoliosis, kyphosis, and/ or lordosis), tumor, stenosis, pseudarthrosis and/or failed previous fusion. The PRODIGY Pedicle Screw System is intended to be used with autograft and/or allograft.

Contraindications:

Contraindications for the PRODIGY Pedicle Screw System are comparable to those of other systems of similar design, and include, but are not limited to:

- Patients with probable intolerance to the materials used in the manufacture of this device.
- Patients with infection, inflammation, fever, tumors, elevated white blood count, obesity, pregnancy, substance abuse, mental illness and other medical conditions which would prohibit beneficial surgical outcome.
- Patients unwilling or unable to follow post-operative restrictions on movement, especially in athletic and occupational activities.
- Use with components from other systems, or in any case requiring the mixing of metals from different components.
- Grossly distorted anatomy caused by congenital abnormalities.
- Any neuromuscular deficit which places an unusually heavy load on the device during the healing process.
- Any other medical or surgical condition which would preclude the potential benefit of spinal implant surgery.
- Rapid joint disease, bone absorption, osteopenia. Osteoporosis is a relative contraindication since this condition may limit the degree of obtainable correction, stabilization, the amount of mechanical fixation, and/or the quality of the bone graft.
- Any case where the implant components selected for use would be too large or too small to achieve a successful result.
- Any patient having inadequate tissue coverage over the operative site or inadequate bone stock or quality.
- Any patient in which implant utilization would interfere with anatomical structures or expected physiological performance.
- Any case not described in the indications for use.
- Reuse or multiple uses.

Cautions, Precautions and Warnings:

Cautions:

Mixing of dissimilar metals can accelerate the corrosion process. Do NOT use titanium and/or cobalt chromium with stainless steel in the same implant construct.

Do not use components of the PRODIGY Pedicle Screw System with components from any other manufacturer.

Care must be taken to protect the components from being marred, nicked or notched as a result of contact with other objects. Alterations will produce defects in surface finish and internal stresses which may become the focal point for eventual breakage of the implant. As with all orthopedic implants, none of the PRODIGY Pedicle Screw System components should ever be reused under any circumstances.

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Precautions:

The implantation of properly selected and placed system implants and components should be performed only by experienced spinal surgeons with specific training in the use of this spinal system because this is a technically demanding procedure presenting a risk of serious injury to the patient.

Patients who smoke have been shown to have an increased incidence of non-union. These patients should be advised of this fact and warned of the consequences. Other poor candidates for spine fusion include obese, malnourished, those with poor muscle and bone quality, and nerve paralysis patients.

Due to the presence of implants, interference with roentgenographic, CT and/or MR imaging may result. The PRODIGY Pedicle Screw System has not been evaluated for safety and compatibility in the MR environment. It has not been tested for heating, migration, or image artifact in the MR environment. The safety of the PRODIGY Pedicle Screw System in the MR environment is unknown. Scanning a patient who has this device may result in patient injury.

Warnings:

The safety and effectiveness of pedicle screw spinal systems have been established only for spinal conditions with significant mechanical instability or deformity requiring fusion with instrumentation. The safety and effectiveness of these devices for any other conditions are unknown.

This device system is not intended to be the sole means of spinal support. Its use without a bone graft or in cases that develop into a non-union will not be successful. No spinal implant can withstand the loads of the body without maturation of a solid fusion mass, and in this case, bending, loosening or fracture of the implant will eventually occur. The proper selection and compliance of the patient will greatly affect the results.

The implantation of spinal systems should be performed only by spinal surgeons fully experienced in the surgical techniques required for the use of such implants. Even with the use of spinal implants, a successful result in terms of pain, function, or fusion is not always achieved in every surgical case.

The physician is the learned intermediary between the company and the patient. The indications, contraindications, warnings, and precautions given in this document must be conveyed to the patient. If requested, additional information, including surgical technique manuals, may be obtained through Curiteva customer support representatives.





Toll Free: 877.9CURITEVA Phone: 256.213.1057 Fax: 256.213.1058 www.curiteva.com customersupport@curiteva.com



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