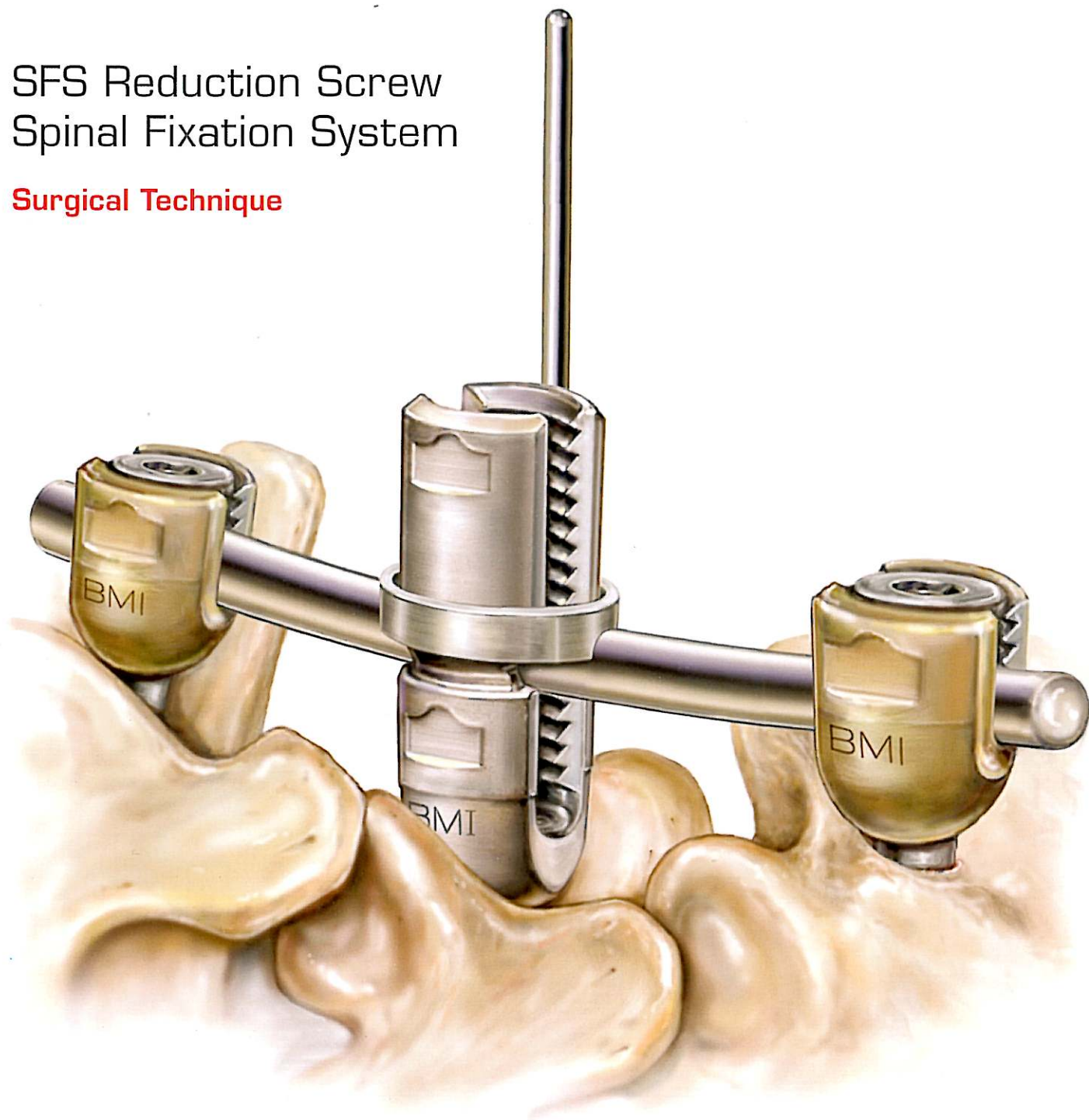


# SFS Reduction Screw Spinal Fixation System

## Surgical Technique



1

(Fig. 1a)



Slide the Multi-Axial Reduction Screw Driver (59-1037) crossbar into the Multi-Axial Screw Head. (Fig. 1a)

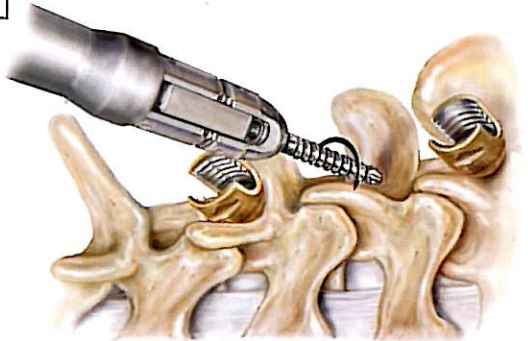


Insert the screw driver's hex tip into the screw head's hex, and secure assembly. (Fig. 1b)

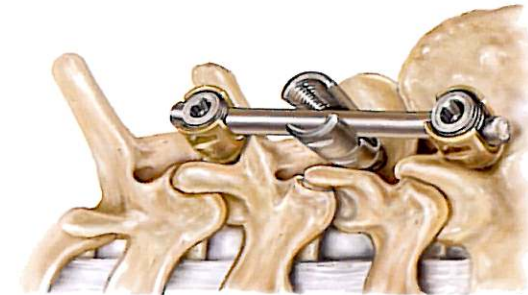
(Fig. 1b)

2

(Fig. 2a)



Advance the screw into the previously prepared pedicle. (Fig. 2a)

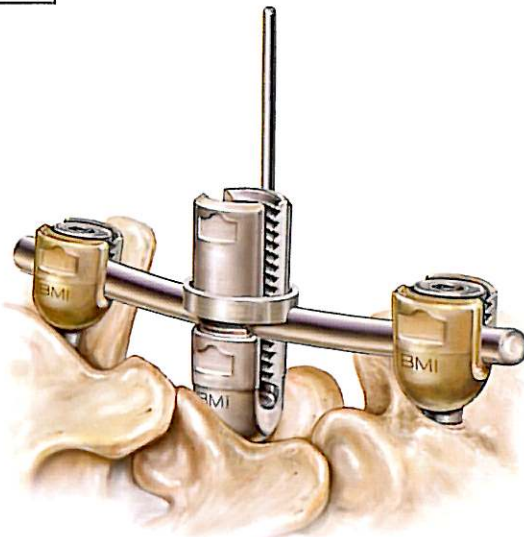


After placing the rod into the saddles, insert setscrews into the screws cephalad and caudal to the reduction target. Tighten all setscrews caudal to the reduction screw with the torque wrench and counter torque wrench and leave the setscrews cephalad of the reduction loose. The opposite approach is equally functional. This step will allow for relative lengthening of the spine during reduction procedure. (Fig. 2b)

(Fig. 2b)

3

(Fig. 3)

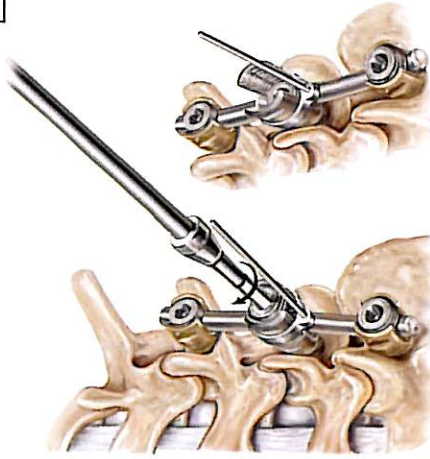


Slide an Anti-Splay Tool (59-0100) or a Scalloped Anti-Splay Tool (59-0200) down each reduction screw head and allow them to rest on the rod throughout both the reduction maneuver and the tab removal. (Fig. 3)

In this surgical technique, the Anti-Splay Tool is illustrated. The extraction pin on the Anti-Splay Tool allows for intra-operative adjustment and removal of the anti-splay ring.

4

(Fig.4)

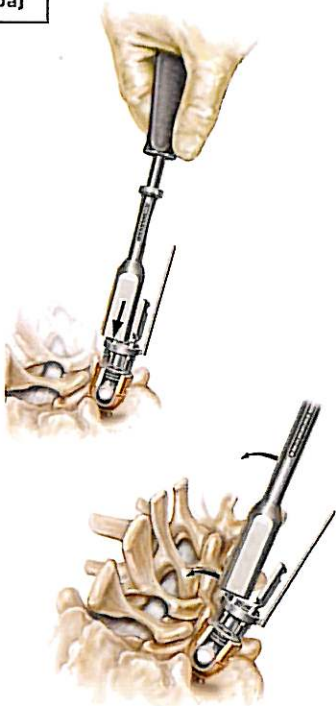


Introduce a setscrew into each reduction screw. Advance the setscrews in unison or back-and-forth from one setscrew to the other. The anti-splay rings will ride down the screw body with the rod as the setscrew is advanced. (Fig. 4)

**Note: Do not remove the anti-splay tools until all tabs are removed, end of step 5.**

5

(Fig.5a)



(Fig.5c)



Once the ring of the anti-splay tool is below the break line and the setscrew is provisionally tight, slide the Tab Removal Tool (59-0400) over one reduction screw tab. (Fig 5a)

**Make sure the extraction pin is not obstructing tab removal.** Lever the tab away from the axis of the screw body. The Tab Breaker will retain the separated tab for controlled removal from the incision site. (Fig. 5b)

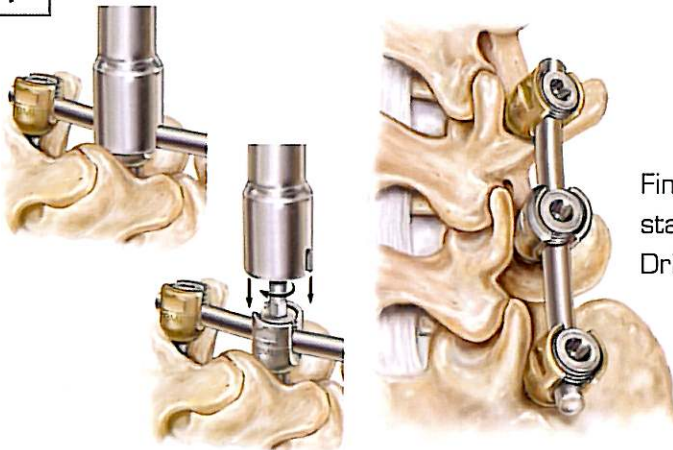
After removal of each tab, compress the distal end of the Tab Removal Tool and its handle to eject the removed tab. (Fig. 5c)

Repeat step 5 for the remaining tabs

(Fig.5b)

6

(Fig.6)



Final tightening is achieved with the standard Torque Wrench, Setscrew Driver, and Counter Torque Wrench.

## Instruments

59-0200	Scalloped Anti-Splay Tool
59-0300	Reduction Screw Head Adjuster
59-0400	Tab Removal Tool
59-1035	Mono-Axial Reduction Screwdriver
59-1037	Multi-Axial Reduction Screwdriver
59-1090	SFS Reduction Screw Case

## \*Implants

*SFS Multi-Axial Reduction Screws	
59-3430	4.5mm x 30mm Multi-Axial Reduction Screw
59-3435	4.5mm x 35mm Multi-Axial Reduction Screw
59-3440	4.5mm x 40mm Multi-Axial Reduction Screw
59-3530	5.5mm x 30mm Multi-Axial Reduction Screw
59-3535	5.5mm x 35mm Multi-Axial Reduction Screw
59-3540	5.5mm x 40mm Multi-Axial Reduction Screw
59-3545	5.5mm x 45mm Multi-Axial Reduction Screw
59-3550	5.5mm x 50mm Multi-Axial Reduction Screw
59-3635	6.5mm x 35mm Multi-Axial Reduction Screw
59-3640	6.5mm x 40mm Multi-Axial Reduction Screw
59-3645	6.5mm x 45mm Multi-Axial Reduction Screw
59-3650	6.5mm x 50mm Multi-Axial Reduction Screw
59-3740	7.5mm x 40mm Multi-Axial Reduction Screw
59-3745	7.5mm x 45mm Multi-Axial Reduction Screw
59-3750	7.5mm x 50mm Multi-Axial Reduction Screw

*SFS Mono-Axial Reduction Screws	
59-4430	4.5mm x 30mm Mono-Axial Reduction Screw
59-4435	4.5mm x 35mm Mono-Axial Reduction Screw
59-4440	4.5mm x 40mm Mono-Axial Reduction Screw
59-4535	5.5mm x 35mm Mono-Axial Reduction Screw
59-4540	5.5mm x 40mm Mono-Axial Reduction Screw
59-4545	5.5mm x 45mm Mono-Axial Reduction Screw
59-4635	6.5mm x 35mm Mono-Axial Reduction Screw
59-4640	6.5mm x 40mm Mono-Axial Reduction Screw
59-4645	6.5mm x 45mm Mono-Axial Reduction Screw

\*Additional reduction screw sizes manufactured upon request.

Spacers and Washers	
55-6003	Spacer, 3mm
55-6005	Spacer, 5mm
55-6102	Washer, 2mm
55-6104	Washer, 4mm
55-6106	Washer, 6mm

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