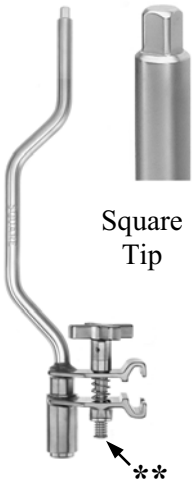

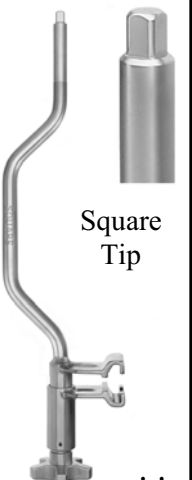
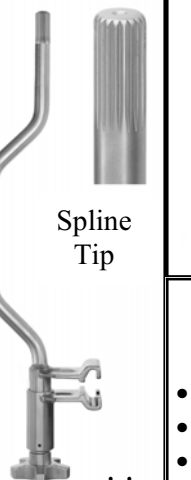
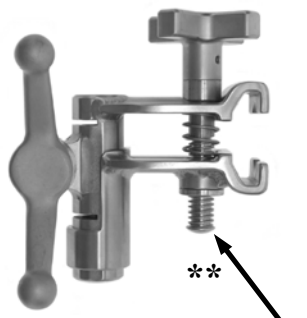
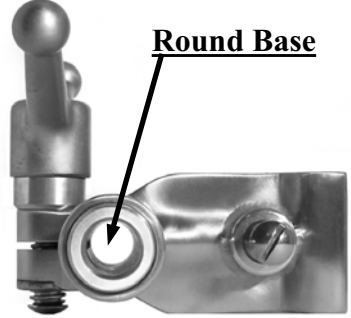
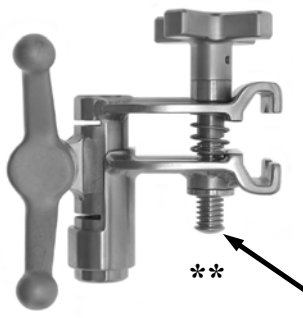
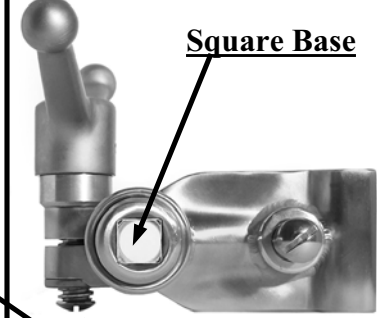
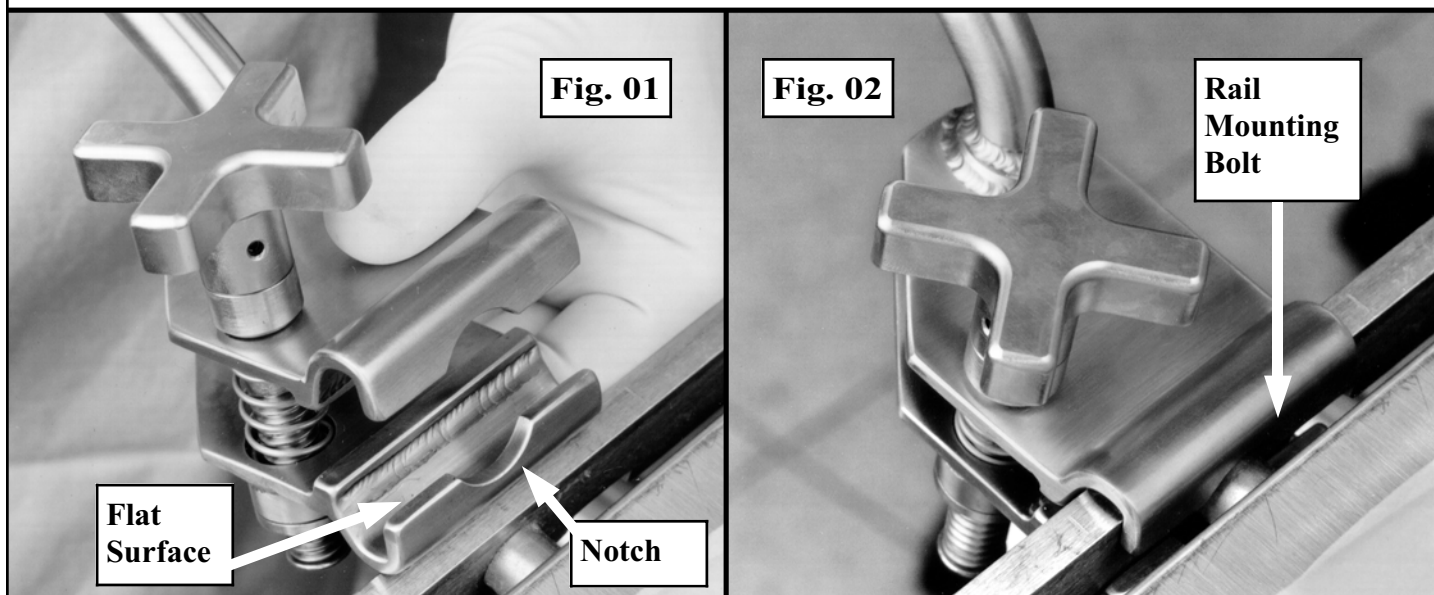


<u>CLAMPS:</u> DOUBLE BEND POST/CLAMP				SQUARE TIP 90° Angle	SPLINE TIP 18° Increments
4150	Square Tip, Double Bend Post/Clamp, Scrub Applied - 19" long				
4150S	Spline Tip, Double Bend Post/Clamp Scrub Applied - 19" long				
4160	Square Tip, Double Bend Post/Clamp, Circulator Applied - 20" long				
4160S	Spline Tip, Double Bend Post/Clamp, Circulator Applied - 20" long				
				<u>Cleaning: Clamp</u> <ul style="list-style-type: none"> • Do not disassemble for cleaning. • <u>Do not remove retaining screw(s).</u>** • Do not open or close handle(s) completely. • Jaws should be partially opened. • Jaws and handles should have free movement. 	
4150 Scrub Applied	4150S Scrub Applied	4160 Circulator Applied	4160S Circulator Applied		

<u>CLAMPS:</u> COMBINATION CLAMP WITH REMOVEABLE POST				<u>NOTE:</u> The difference in appearance and function of the 4110 Clamp is the internal <u>round base</u> or <u>square base</u> . See Below.	
4110	Round Base Combination Clamp				
4110S	Square Base Combination Clamp				
4110 Round Base		4110S Square Base			
					
<u>WARNING:</u> Removal of <u>retaining screw(s)</u> **(4110P-12) will cause device to come apart. This will result in failure during use.				<u>**Retaining Screw locations</u>	

FUNCTION OF CLAMP JAW

1. Each table clamp attaches to the operating table in a similar manner.
2. The patented shape of the jaw allows the clamp to attach to different size rails, with or without a drape.
3. Each clamp has a handle assembly, which is used to tighten (close) or loosen (open) the clamp jaws. Turning the handle clockwise tightens jaws. Turning the handle counter clockwise loosens jaws.
Note: The combination clamp may be inverted. The locking rotation is still clockwise, though it may appear to be counter clockwise (Fig. 06).
4. Most operating tables have rail mounting bolts which attach the rail to the table. The clamp jaws have a centrally located notch to allow for positioning over a rail mounting bolt (Fig. 01 and 02).



ATTACHING FIXED POST/CLAMP and COMBINATION CLAMP TO OPERATING TABLE

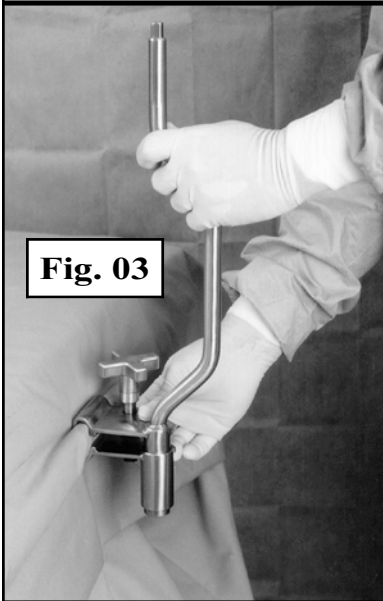
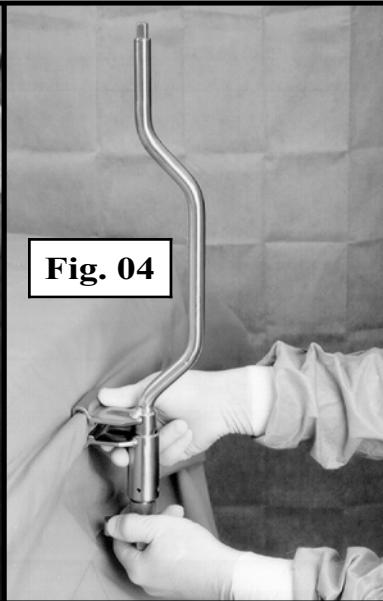
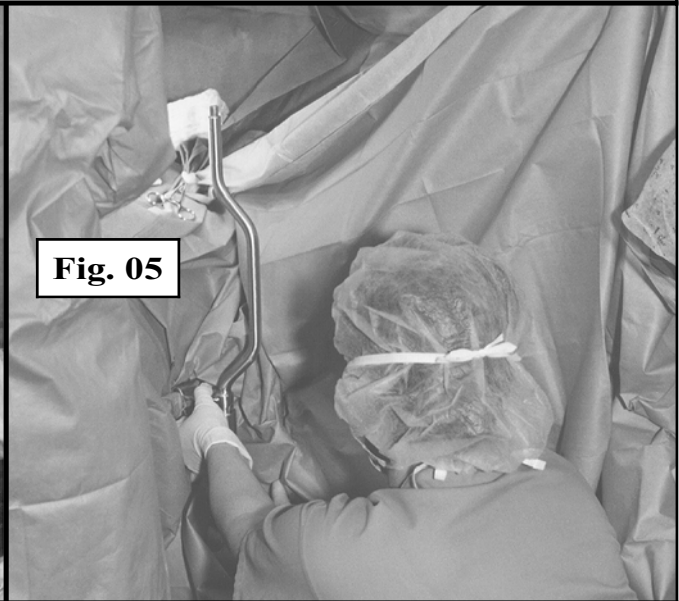
For Midsternotomy: Attach clamp to table rail approximately two inches below patient's axilla on the side to be dissected. Clamp position may change or be adjusted according to age and size of patient or physician's technique or preference.

1. Open clamp jaws completely by turning the cross handle counter clockwise. Hold clamp jaws with one hand and post with the other. Check for free movement of jaws by squeezing together then releasing.
2. Before attaching clamp to table rail, check for possible obstruction.
3. Hold clamp by the upper and lower jaws with one hand and slightly tilt upper jaw inward (toward table). Place upper jaw over the rail, then pivot lower jaw inward (toward the table). Both jaws should be in line with table rail.
4. Squeeze jaws together to assure there is no obstruction between jaws and rail. While holding jaws closed, securely tighten with cross handle (Fig. 03, 04, & 05).
5. When pulling on the post or body of the clamp, there should be no movement when applied properly. If clamp has movement, check for obstruction between jaws and table rail.

REMOVE SYSTEM FROM TABLE

1. After rake(s) are removed from patient, wind cable upward leaving approximately two inches exposed.
2. Remove all accessories from top post.
3. Remove top post from post/clamp.
4. Place one hand around clamp jaws to hold together during removal. Loosen cross handle by turning counter-clockwise until handle stops. A slight wiggle of clamp will release the clamping pressure which allows spring loaded jaws to separate.

Demonstration: Attaching Clamp to rail

 <p>Fig. 03</p>	 <p>Fig. 04</p>	 <p>Fig. 05</p>
<p>Scrub Applied 4150 or 4150S</p>	<p>Circulator Applied 4160 or 4160S</p>	<p>Demonstration: Attaching Clamp to rail over drape.</p>

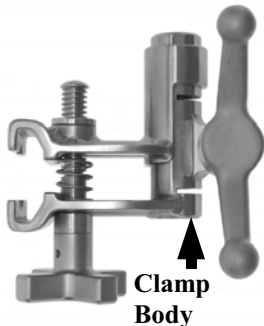
Note: If Clamp still has movement after tightening

1. Check for obstruction(s) around the jaws. (Rail spacers bolts, padding, drapes, arterial lines, etc.) It may also be caused by jaw(s) of the clamp being out of alignment. This prevents full contact of clamp jaw on the table rail.
2. Clamp may appear to have some movement but is tight on the table rail. This movement may be caused by a loose table rail mounting. To remedy this, either have the bed rail tightened or return the Post/Clamp to Rultract® for re-alignment.
3. The original Post/Clamps do not have notches along flat surface of jaw. Notches will be added when returned for factory service (Fig. 01).

Combination Clamp Fig. 06

4110 or 4110S
Scrub Applied

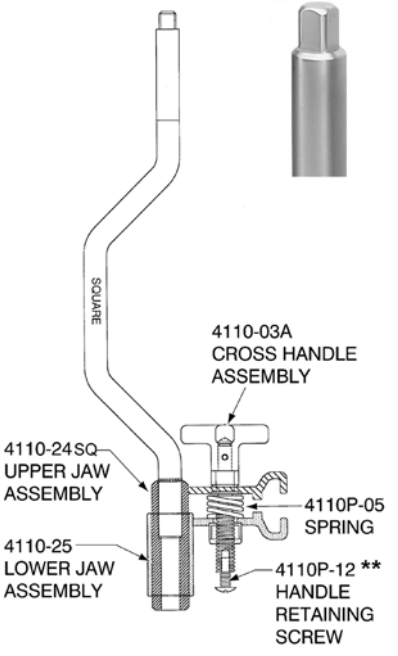
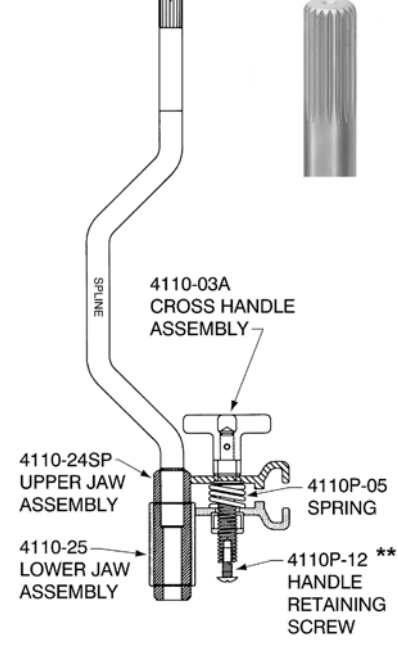
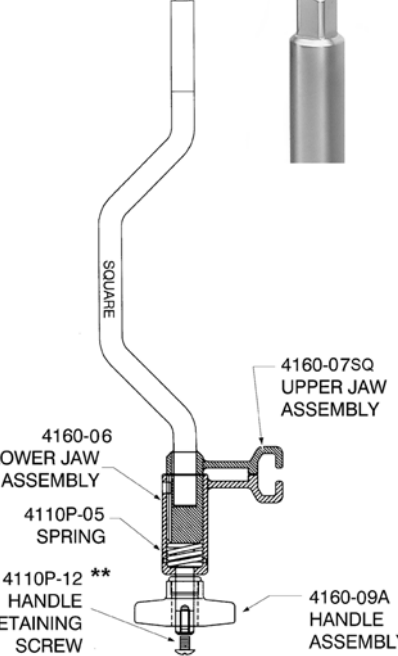
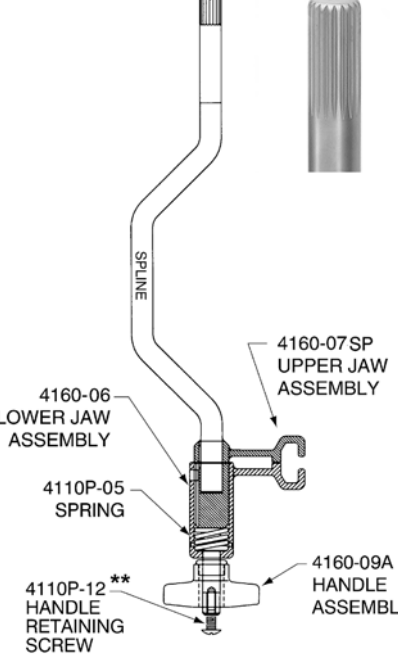
4110 or 4110S
Circulator Applied
(Inverted)



Wing Handle: For proper locking, post must be inserted flush with bottom of clamp or lower. Turn wing handle clockwise to tighten securely. This will compress the clamp body around the post.

Combination Clamp Features: (Fig. 06)

1. Approximately 2 inches in height is gained when a combination clamp is inverted.
2. The Combination Clamp can be applied by scrub or circulator.
3. The Combination Clamp can be attached directly to the table rail or over the drape.

<p>4150 Square Tip Double Bend Post/Clamp (scrub applied)</p>	<p>4150S Spline Tip Double Bend Post/Clamp (scrub applied)</p>	<p>CLAMP SPECIFICATIONS:</p>
		<p>CAUTION:</p> <p>Improper placement of clamp on table rail over rail mounting bolt will cause misalignment of jaws and prevent secure attachment to table (see page 11).</p> <p>WARNING:</p> <p>Removal of retaining screw(s) ** (4110P-12) will cause device to come apart. This will result in failure during use.</p>
<p>4160 Square Tip Double Bend Post / Clamp (circulator applied)</p>	<p>4160S Spline Tip Double Bend Post/Clamp (circulator applied)</p>	<p>4110 and 4110S Combination Clamp</p>
		<p>4110-18-03 ROUND BASE UPPER JAW ASSEMBLY 4110-18-03S SQUARE BASE UPPER JAW ASSEMBLY</p> 