

# Orthodontic Skeletal Anchorage System

Improved stability and control

Comprehensive implant selection

Wide range of clinical applications





### Intended Use

- Intrusion/ extrusion of teeth
- Distal/ mesial movement
- Space closure
- 3-D control of teeth

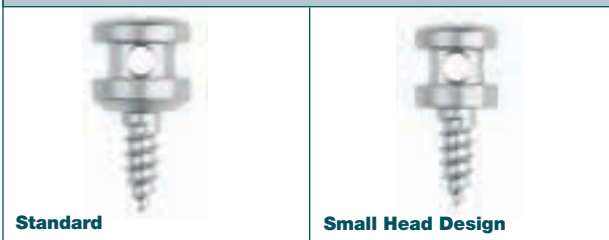
### Advantages of System

- Versatility and ease of use
- Ability to eliminate head gear
- Less invasive than orthognathic surgery
- Possible treatment time shortened
- Wide range of clinical applications

### Anchor Screw

- Resistance of sufficient load
- Minimizes patient trauma
- Easy and quick removal

#### Anchor Screw Comparison



- A smaller head design is intended to increase patient comfort while retaining effective versatility for loading elastics and other orthodontic appliances.

### Anchor Plate

- Additional range of adaptability to avoid vital structures
- More stable fixation
- Prevent disturbance of teeth movement



### Screwdriver Blade/Tension Sheeth and Grasping Plier

- Provides additional stability for the insertion of the anchor screws



### Activation Tool (For Locking Anchor Plates)

- Loosens/tightens locking head on locking anchor plate



- The head on the locking anchor plate provides exceptional versatility and control throughout the treatment plan.
- This unique technology allows the orthodontist to secure orthodontic appliances/accessories in the guide holes.
- They may also tighten/modify those accessories with the turn of the activation tool, which allows the locking head to tighten or release so that accessories can be removed or redirected with ease.

Self-Drilling Anchor Screw	Self-Tapping Anchor Screws (Small Head Design Shown)
<p><b>51-17195</b> (Standard)</p> <p><b>92-51195</b> (Small Head)</p>  <p>5mm</p>	<p><b>51-17106</b> (Standard)</p> <p><b>92-51106</b> (Small Head)</p> <p><b>51-17108</b> (Standard)</p> <p><b>92-51108</b> (Small Head)</p> <p><b>51-17112</b> (Standard)</p> <p><b>92-51112</b> (Small Head)</p>  <p>6mm</p>  <p>8mm</p>  <p>12mm</p>
Locking Anchor Plates	Standard Anchor Plates
<p><b>92-55160</b> Straight, 6mm Bar Locking</p> 	<p><b>92-55060</b> Straight, 6mm Bar</p> 
<p><b>55-05160</b> Straight, 9mm Bar Locking</p> 	<p><b>55-06160</b> Straight, 9mm Bar</p> 
<p><b>55-05161</b> Straight, 11mm Bar Locking</p> 	<p><b>55-06161</b> Straight, 11mm Bar</p> 
<p><b>92-55162</b> T-Plate, 6mm Bar Locking</p> 	<p><b>92-55662</b> T-Plate, 6mm Bar</p> 
<p><b>55-05162</b> T Plate, 9mm Bar Locking</p> 	<p><b>55-06162</b> T Plate, 9mm Bar</p> 
<p><b>55-05163</b> T Plate, 11mm Bar Locking</p> 	<p><b>55-06163</b> T Plate, 11mm Bar</p> 



# Orthodontic Skeletal Anchorage System

## Procedural Step-by-Step



**1.** Exact location and angle of each anchorage device is determined by orthodontic treatment plan, preoperative clinical examination, and review of panoramic radiograph.



**2.** Within the maxilla, placement is usually at either the zygomatic or piriform buttress regions where adequate bone thickness allows for stable placement of the device while avoiding tooth roots.

**3.** Within the mandible, the region of the mental nerve is avoided with placement either anterior or posterior to the area of the mental foramen.

**4.** Typically, most anchoring devices are placed utilizing local anesthesia, or in combination with light conscious sedation.



**5.** At the area of planned placement, a vertical incision is created within the maxillary or mandibular vestibule. This incision is carried to the junction of the attached and unattached tissues (e.g. the mucogingival junction).

**6.** A periosteal elevator is utilized to develop a full thickness mucoperiosteal flap exposing the underlying cortical bone.



**7.** A small horizontal extension at the mucogingival junction may be added to the vertical incision in order to provide additional flap mobilization and bony exposure.

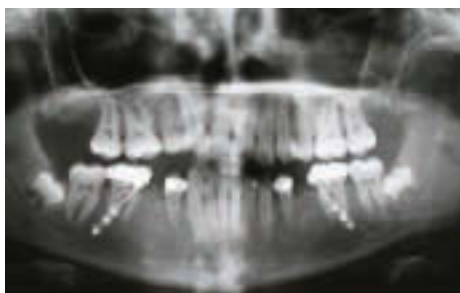
**8.** An appropriate size anchor is selected and contoured using small plate bending forceps. The plate is contoured to the shape of the facial (maxillary or mandibular) cortex. Care is taken so that the connecting bar segment of the device is as close to the bone surface as possible beneath the level of the mucogingival junction.



**9.** Closure of the incision is performed using resorbable suture such as 3-0 Chromic placed in interrupted fashion.



**10.** The device should be positioned so that the connecting bar exits at the mucogingival junction.



**11.** Postoperative panoramic radiograph is obtained in order to confirm position of anchorage devices.



**12.** Postoperative medications typically include the following:

- Antibiotic coverage (systemic) for 5 to 7 days. Typically, this consists of oral penicillin or clindamycin (in penicillin-allergic patients).
- Chlorhexidine 0.12% solution prescribed as an oral rinse two times per day over a 5 day period.
- Analgesic(s).



**13.** The device is activated approximately 7 days following placement. Note: Activation of the device before the initial 7 to 10 day postoperative time period may lead to loosening and/or loss (failure) of the fixture.

(Optional photohook plastic retractors shown)

## Ordering Information

### Anchor Plates

#### Standard (Order Qty: Pkg of 1)

92-55060	Standard Anchor Plate Straight, 6mm
55-06160	Standard Anchor Plate Straight, 9mm
55-06161	Standard Anchor Plate Straight, 11mm
92-55662	Standard Anchor Plate T-shape, 6mm
55-06162	Standard Anchor Plate T-shape, 9mm
55-06163	Standard Anchor Plate T-shape, 11mm

#### Locking (Order Qty: Pkg of 1)

92-55160	Locking Anchor Plate Straight, 6mm
55-05160	Locking Anchor Plate Straight, 9mm
55-05161	Locking Anchor Plate Straight, 11mm
92-55162	Locking Anchor Plate T-shape, 6mm
55-05162	Locking Anchor Plate T-shape, 9mm
55-05163	Locking Anchor Plate T-shape, 11mm

### Anchor Screws

#### Self-Tapping (Order Qty: Pkg of 1)

51-17106	1.7x6mm Anchor Screw, Self-Tapping
51-17108	1.7x8mm Anchor Screw, Self-Tapping
51-17112	1.7x12mm Anchor Screw, Self-Tapping
92-51106	1.7x6mm Anchor Screw, Self-Tapping (Small Head)
92-51108	1.7x8mm Anchor Screw, Self-Tapping (Small Head)
92-51112	1.7x12mm Anchor Screw, Self-Tapping (Small Head)

#### Self-Drilling (Order Qty: Pkg of 1)

51-17195	1.7x5mm Anchor Screw, Self-Drilling
92-51195	1.7x5mm Anchor Screw, Self-Drilling (Small Head)

### Bone Screws

#### 1.7mm Cross-Pin, Self-Tapping Screws (Order Qty: Pkg of 5)

50-17004	1.7x4mm Self-Tapping Screw
50-17005	1.7x5mm Self-Tapping Screw
50-17006	1.7x6mm Self-Tapping Screw

#### 1.7mm Cross-Pin, Self-Drilling Screws (Order Qty: Pkg of 5)

50-17904	1.7x4mm Self-Drilling Screw
50-17905	1.7x5mm Self-Drilling Screw
50-17906	1.7x6mm Self-Drilling Screw

#### 1.9mm Emergency Self-Tapping Screws (Order Qty: Pkg of 5)

50-19003	1.9mm Emergency Screw, 3mm
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### Instrumentation

#### Plate-Bending/Cutting Instruments (Order Qty: Pkg of 1)

62-18330	In-Situ Plate Cutter
64-00155	Plate Bending Instrument

#### Screwdrivers (Order Qty: Pkg of 1)

62-12170	Screwdriver Blade
62-20285	Screwdriver Handle
92-12170	Screwdriver Blade for Tension Sheath/Plier
92-12175	Tension Sheath
92-12176	Grasping Plier

#### Twist Drills (Single Use Only) (Order Qty: Pkg of 1)

60-13506	1.35 x 50mm, 6mm working length, Stryker End
60-13512	1.4 x 54mm, 12mm working length, Stryker End

#### Locking Activation Tool (Order Qty: Pkg of 1)

62-00606	Locking Activation Tool
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#### Implant Module (Order Qty: Pkg of 1)

29-00060	Implant Module
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#### Optional Instrumentation\* (Order Qty: Pkg of 2)

09-01170	11.5cm Photohook Plastic Retractor (Child Size)
09-01160	12.5cm Photohook Plastic Retractor (Adult Size)
09-01165	9cm Photohook Plastic Retractor (Self Retaining)

\* For the full offering of Leibinger instrumentation, please contact your local Stryker representative.

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