# Class III Deep Bite
## Suggested Treatment Protocol

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<th>Phase</th>
<th>Archwires</th>
<th>Objectives</th>
<th>Duration in Weeks</th>
<th>Interval in Weeks</th>
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<th>Early Light Elastics Begun at Initial Bonding</th>
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| I. Initial Light-Wire | Damon Optimal-Force Copper Ni-Ti $^{\circ}$ | • Begin leveling and alignment  
• Initiate arch development without RPEs or W-arches  
• Resolve 90% of rotations  
• Extrude buccal segments  
• Begin A/P correction and vertical correction | 10 | 10 | Always place stops anterior to crowding.  
Use bite turbos (preferably behind L1s) to allow buccal segments to extrude. Disarticulation is also TMJ favorable.  
Reverse curve Ni-Ti is not recommended on upper arch.$^{2}$ | Quail 3/16", 2 oz – Shorty CL III U5 to L3 or U6 to L4 – Full time | When 90% of rotations are resolved.  
Do not rush this Phase. It must be possible to insert the first edgewise wires with minimal active engagement. If not, let the current wire work longer.  
Avoid the use of any wire “icing” product that would apply too high a force when the wire warms. |
| II. High-Tech Edgewise | Damon Optimal-Force Copper Ni-Ti $^{\circ}$ | • Complete leveling and alignment  
• Continue arch development  
• Resolve remaining rotations  
• Begin torque control  
• Consolidate minor spacing | 10 | 10 | Typically use power chain under wire to consolidate minor spaces U/L 3 to 3. If consolidating minor spaces 6 to 6, run wire 7 to 7. If 7s are not erupted, consolidate 5 to 5. Run wire 6 to 6.$^{4}$ | Parrot 5/16", 2 oz – Sling U6 to L4 to U4 – Full time  
PRN. Dolphin 5/16", 3 oz – Sling U6 to L4 to U4 – Full time  
As soon as anterior bite has jumped, remove Bite Turbos. | When all brackets and teeth are aligned.  
It should be possible to insert the working wires with minimal active engagement. If not, the case is not ready for Phase III. Avoid “icing” products. |

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1In patients with very thin attached tissue, severe crowding or periodontal issues, waiting to start elastics until the second appointment may help prevent labial gingival recession.  
2Preserving a satisfactory smile arc in a deep-bite case usually precludes using a reverse curve archwire on the upper arch that would flatten it – even in cases with excessive gingival display. 90% of the correction should come from extruding the buccal segments and bringing the molars up and forward. It may also be advisable to intrude lower incisors and extrude upper incisors to enhance the smile arc.  
3Allowing staff to engage pretorqued wires is not recommended; wire orientation is critical and it is easy to reverse it inadvertently.  
4If consolidating space behind canines, keep power chain one tooth forward of end of wire to help prevent rotation.
**Class III Deep Bite (continued)**

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<td>III. Major Mechanics</td>
<td><strong>Posted Stainless Steel</strong> .019 x .025 U .016 x .025 L</td>
<td>• Take wax bite; coordinate patient-specific arch form • Consolidate any remaining minor spacing • Express majority of remaining torque • Overcorrect A/P</td>
<td>20 – 30</td>
<td>8</td>
<td>To preclude too much overcorrection, do not allow intervals to extend beyond 8 weeks.</td>
<td><strong>Zebra</strong> 5/16&quot;, 4.5 oz – Sling U6 to L4 to U4 – Full time</td>
<td>When the case is CL I and has been in an overcorrected position for 8 weeks.</td>
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<td>Alternative: <strong>Kangaroo</strong> 3/16&quot;, 4.5 oz or <strong>Impala</strong> 3/16&quot;, 6 oz – CL III U6 to L Post – Full time</td>
<td>Watch upper anterior roots in relation to the labial alveolar plate as upper anteriors are dettorquing</td>
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<td><strong>TMA</strong> .019 x .025 U .017 x .025 L</td>
<td>• Make final buccolingual, torque, A/P and occlusal adjustments</td>
<td>15 – 20</td>
<td>4 – 6 until sectioning wire, then 2</td>
<td>To engage elastics, crimp surgical posts on TMA wire to distribute forces over the archwire.</td>
<td><strong>Quail</strong> 3/16&quot;, 2 oz – Shorty CL III U5 to L Post – Full time</td>
<td>Overlay <strong>Zebra</strong> 5/16&quot;, 4.5 oz Posterior V – U6 to L4 to U Post Full time until socked in, then 12 hours daily (after school and nights) PRN when sectioning wire, maintain Shorty CL III but switch from Posterior V to <strong>Ostrich</strong> 3/4&quot;, 2 oz – Spaghetti U to L 7 to 3 – Twisted in between. In the anteriors, end on lower Post – Full time</td>
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*These wire/elastics sequence recommendations have been shown to be effective when treating with Damon System mechanics. They are not a replacement for professional expertise.*