One-Step Trial Drill Guide and Plate Length Determination

- All four pilot holes are prepared prior to screw placement
- Allows placement of hardware as far from adjacent levels as possible
- Plate size determined by Trial Drill Guide size
- Screw angulation of 20° and 10° cephalad/caudal and 7° medial convergence
- 5, 6, 7, 8, 9, and 10mm trial heights
- 12x14mm and 14x16mm footprints with a 6° angulation
- For use in conjunction with the Struxxure Anterior Cervical Plate System only
DT Elite Trial Guide System Single-Level Technique

The DT Elite Trial Drill Guide reduces the number of steps the ACDF procedure by allowing the surgeon to determine interbody spacer dimensions, prepare all 4 pilot holes, and ascertain plate length simultaneously with one instrument.

This procedure allows screw holes to be placed with excellent visualization above and below the endplates, thus maximizing the distance to adjacent levels and decreasing the potential for Adjacent Level Ossification.1

1. The Trial Drill Guide produces a cephalad screw hole angle of 20° and a caudal screw hole angle of 10°. The screws converge at 12° in the transverse plane.

2. After performing a discectomy, a Trial Drill Guide is placed in the disc space (Figure 1).

3. Various heights are trialed in the disc space until the appropriate fit is achieved. The trial portion of the Trial Drill Guide assumes that the graft will be countersunk 2.0mm.

4. Once the correct spacer size is determined the Drill Bit can be introduced through the guide barrels on the Trial Drill Guide. All four holes are prepared prior to plate insertion (Figure 2).

5. After drilling the first hole, it is helpful to disengage the handle and leave the Drill Bit in place to stabilize the trial while the contralateral holes are drilled. After drilling the third hole, leave the Drill Bit in place, remove the first Drill Bit, and prepare the final hole.

6. As an alternative to drilling through the drill guides, the Awl may be placed through the drill guides to pierce the anterior cortex to a depth of 10mm. The Trial Drill Guide may be removed once the holes have been prepared.

7. The four holes prepared for the single-level plate have the predetermined location that corresponds to a specific length cervical plate. The Struxxure ACP length is labeled on the strike plate of the Trial Drill Guide. The chart below may be used to reference the relationship between the Honour Cervical Spacer height and the recommended Struxxure ACP length.

8. The Honour Cervical Spacer is inserted into the disc space.

9. The plate is positioned over the graft such that the pilot screw holes are visible through the holes in the plate (Figure 3). The appropriate bone screw is loaded on the Screw Inserter and implanted.

10. Following insertion of all screws, the Cam Locking Instrument is utilized to rotate Locking Cams into the locked position.


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![Diagram](image1)

**Implant Footprint**

D x W

- Trials recessed 2mm from tip of drill barrels
- Implant Height
- Implant Angles
- Drill Barrel Angles
- 20° Cephalad
- 10° Caudal
- Recommended Struxxure ACP Length
- Color Code

**Recommended Struxxure ACP Length**

<table>
<thead>
<tr>
<th>Drill Guide Size</th>
<th>Color Code</th>
<th>Corresponding Struxxure 1-Level Plate</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Green</td>
<td>17</td>
</tr>
<tr>
<td>6</td>
<td>Purple</td>
<td>17</td>
</tr>
<tr>
<td>7</td>
<td>Blue</td>
<td>18</td>
</tr>
<tr>
<td>8</td>
<td>Orange</td>
<td>18</td>
</tr>
<tr>
<td>9</td>
<td>Gray</td>
<td>20</td>
</tr>
<tr>
<td>10</td>
<td>Gold</td>
<td>20</td>
</tr>
</tbody>
</table>

Plate length denotes overall length measurement. Subtract 8mm for hole to hole length.
Color code also matches corresponding Rasp.