Zimmer®
Cable-Ready®
Bone Plate

Abbreviated
Surgical Technique
Design of the Bone Plate

The Zimmer® Cable-Ready® Bone Plate is designed to incorporate the cable into the plate. The cable is an integral part of the plate and not only passes through the plate but is fixed to the plate. This Bone Plate cable is secured internally in a low profile mechanism that does not require a crimper. Each cable is locked by turning a set screw in the plate. The same Tensioner is used as is found in the Cable-Ready Instrument Set. The only additional piece of equipment needed for this plate system is a Tensioner Bit.

The purpose of combining the screws and cables with the plate is to help secure the bone both internally and externally. The Bone Plate is also utilized when bone screws are not appropriate such as when a prosthesis occupies the canal of the bone. The Bone Plate is designed to support axial loading due to column support of the cables.

Indications for the Bone Plate

The Bone Plate is designed to address complicated fractures or reconstruction of the femur or tibia. Examples of possible uses for the bone plate include fractures below or above the prosthesis, comminuted femoral shaft fractures (both proximal and distal), nonunions of fractures with failed previous hardware, reconstruction of bone defects, and revisions of total hip or total knee arthroplasty with bone loss or fractures.

Surgical Technique

There are three different Bone Plates – 6, 8, and 10 hole plates. The appropriate plate is selected. The individual cables may be inserted before or after the plate is attached to the bone. The recommended technique is to insert a cable on each end of the plate prior to applying the plate to the bone. The cables are harder to insert on the ends of the plate due to soft tissue limitations. (Sometimes it is easier to insert many or most of the cables into the plate prior to inserting the plate.)

The cables on each end of the plate may be wrapped around the bone to secure the plate to the bone and help stabilize the bone while the final reduction is carried out.

Cable Insertion

The cable may be inserted in either direction. In the usual lateral approach to the femur, the cable is inserted into the posterior side of the plate and pulled until the plug countersinks into the plate.

NOTE: The cable should be pulled relatively parallel to the cable holes in the plate.

If an attempt is made to pull the cables perpendicular to the cable holes of the plate, it will be difficult to slide the cables through the plate.
2 Using the Cable Passer

The cables are inserted into the Cable Plate on the posterior side. The Cable Passer is passed from posterior to anterior. The cable is inserted into the tip of the Cable Passer and threaded until the cable is seen exiting from the shaft of the Cable Passer.

The Cable Passer is withdrawn, leaving the cable on the posterior side of the plate. The cable is threaded through the second transverse hole with the set screw. The free end of the cable is directed anteriorly. Once the cable is threaded through the plate, it is tensioned with the Tensioner on the anterior side of the plate. Again, pull the cable parallel to the cable holes in the plate.

3 Tensioning the Cable

To provide full tensioning capability of the instrument, depress release lever to allow rear lock mechanism to be positioned as shown below.

Squeeze the handles to apply tension to the cable monitoring the amount of travel on the indicator rings. Normally, the tension should be adjusted to between 70 & 90 on the indicator rings. Once the desired tension is obtained, set the tensioning bit cable lock. Release the rear cable lock and remove the tensioner. Depress the release lever to return the tensioner to the ready position.

To tension the cable, the Cable Bit is inserted into the Tensioner. The cable is threaded completely through the Tensioner and the slack is pulled out of the cable. The rear lever at the end of the tensioner is depressed to lock the cable.
4 Tension/Re-Tension
The Standard Cable Tensioning Bit may then be used to hold the tension in the cable by depressing the lever on the bit. The cable may be retensioned later if necessary.

5 Seating the Set Screw
Once the final tension is accomplished, the cable is locked by turning the appropriate set screw in the Bone Plate.

6 Cable Insertion
After the set screw is firmly seated, the excess cable is cut off flush with the plate.

It is recommended to use a cable at each site (transverse pair of holes). Whether or not a cable is utilized at a particular location in the Bone Plate, all set screws must be seated at the completion of the procedure. The order of cable insertion depends upon the fracture pattern or particular use or situation. Generally, if a cable is first inserted on each end of the plate, the plate and bone can be grossly stabilized. The cables can be loosely tensioned by hand and held with retensioning bits. The bones are then manipulated and final reduction accomplished. The cables are very useful in holding the reduction while the bicortical bone screws are inserted. The cables act as an adjunct or replacement for bone holding clamps.

Ordering Information

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>00-2232-003-01</td>
<td>6-Hole/6-Cable Plate, 187mm</td>
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<td>00-2232-003-02</td>
<td>8-Hole/8-Cable Plate, 246mm</td>
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<td>00-2232-003-03</td>
<td>10-Hole/10-Cable Plate, 305mm</td>
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<tr>
<td>00-2232-003-18</td>
<td>1.8mm Stainless Steel Bone Plate Cable, 610mm</td>
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Contact your Zimmer representative or visit us at www.zimmer.com

The CE mark is valid only if it is also printed on the product label. Please refer to package insert for complete product information, including contraindications, warnings, precautions and adverse effects.