Instructions for Use
BUC® Non-Surgical Ultrasonic Endodontic Instruments

Function and Uses:
BUC instruments have been designed to function on most brands of Piezo-Electric type dental ultrasonic Scalers that use an M3x0.6 thread. Refer to your ultrasonic machine owner’s manual for further details on the use of these types of devices. The operator should be aware that ultrasonic tips with small diameters are subject to breakage at any time. In order to reduce the incidence of premature breakage or failure, only a very light pressure should be applied by the operator, and the suggested intensity settings should be followed.

All BUC instruments incorporate a contra-angled shape allowing for improvement in procedural access for both anterior and posterior teeth. This is the same design found in virtually all dental instruments as well as ultrasonic tips for scaling and periodontal use. The following are guidelines for the various uses of BUC Instruments.

BUC-1 Intensity Setting – Medium to High  BUC-1A Intensity Setting - Medium
The BUC-1 can be used for gross dentin removal, moving access line angles, cutting a groove in the mesial access wall to drop into MB2 canals, and for quickly and carefully unroofing pulp chambers. Its radiused tip geometry also allows effortless entry into each canal orifice and facilitates the creation of a smoothly troughed surface, which is helpful in finding reclusive MB2’s. The BUC-1A tip has the same radiused tip geometry as the BUC-1, only in a narrower diameter. This was designed to aid the opening of the isthmus between canals in the same root--especially in retreat cases.

BUC-2 and BUC-2A Intensity Setting – Medium to High
The BUC-2, with its disk-like radiused tip, can be used to smoothly and safely plane attached pulp stones from the pulp chamber floor without scoring it. In molars, it can be used to horizontally smooth the pulp chamber floor without cutting past it to get to the darker colored dentin. The smaller version BUC-2A has a 1.0mm diameter and can be used for corners of molar access prep and bicuspid access prep as well.

BUC-3 and BUC-3A Intensity Setting – Low
The BUC-3 is an extremely active instrument with a sharp tip. It is used for chasing canals halfway up a root or for digging around a post or carrier based obturators to remove it. It has a water port placed near the cutting surface of the tip for increased washing and cooling of the operative site. The BUC-3A tip is sharp at its end like the BUC-3 but narrower for troughing around broken instruments in the coronal 1/2 of the root. The diamond coating makes it more effective in cutting both canal wall dentin as well as smoothing the ragged edge of the broken instrument.

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Sterilization Instructions – Ultrasonic Tips

BUC ultrasonic tips are not sold sterile and should be cleaned and sterilized prior to each use.

1. Cleaning – Pre-clean using a high-quality, pH neutral, ultrasonic cleaning solution. Follow solution manufacturer’s instructions. Dry thoroughly with a towel and compressed air.

2. Steam Sterilization – For long term tip storage, place the tips to be sterilized in the tip taxi then in an autoclave pouch prior to sterilization. The tips do not require an autoclave pouch if they are intended for immediate use and can be placed solely in the tip taxi for sterilization. Sterilize the handpiece according to the following parameters for:

<table>
<thead>
<tr>
<th>Steam Sterilization Parameters for Tips</th>
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<tbody>
<tr>
<td>Steam Sterilizer Type</td>
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<tr>
<td>Temperature</td>
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<tr>
<td>Cycle Time</td>
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<tr>
<td>Maximum Dry Time</td>
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</tbody>
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Disclaimer: Obtura Spartan does not assume any responsibility or liability for incorrect diagnosis or failed procedures due to operator error or equipment malfunction. Clinicians who are not familiar with the techniques and uses of this product should attend courses and receive training on the subject prior to use. Warranty: Ultrasonic instruments are covered by a limited 90-day warranty and will be replaced or repaired at our option if returned, shipping prepaid, to the point of purchase. Warranty is void if used incorrectly, or on improper equipment.

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1014 Rev J 042511
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