



**Atrix-C™ Cervical Allograft Spacer
Instrument Instructions For Use**

Y IMPORTANT NOTE:

The user acknowledges that he/she has read and agreed to the conditions in this insert, which are to be considered as contractual.

GENERAL INFORMATION

The Atrix-C™ Cervical Allograft Spacer System of X-spine Systems, Inc., consists of various sizes of structural cortical allograft spacers and associated instrumentation.

INDICATIONS FOR USE

The Atrix-C™ instrumentation is intended for the placement of the Atrix-C™ allograft spacers into the cervical spine (C3-C7 inclusive).

Y Warnings and Precautions

Instruments are provided non-sterile and must be cleaned and sterilized before use.

Use FDA cleared sterilizers and sterilization packaging materials/accessories. DO NOT stack instrument trays during sterilization.

Do not use oil-based instrument lubricants, as these may interfere with the sterilization process.

CLEANING OF INSTRUMENTS

Y CAUTION: Use of sodium hydroxide (NaOH) is prohibited. Use of corrosive products and/or instruments including abrasive sponges and metal brushes should be avoided. Cleaning must be performed by personnel trained in the general procedures involving contaminant removal. Automated washer/disinfector systems are not recommended as the sole cleaning method for surgical instruments. An automated system may be used in addition to the following manual cleaning procedure.

1. Thoroughly clean all instruments prior to use and as soon as possible after use (within a maximum of 2 hours post-operation) with intensive rinsing under cool tap water (<40°C) to remove gross soil. Do not allow blood and debris to dry on the instruments. If cleaning must be delayed, place instruments in a covered container with appropriate detergent (Enzol® Enzymatic Detergent or equivalent) to delay drying.
2. Loosen and disassemble instruments with removable parts in accordance with **Table 1** below.

Table 1 – Instruments Requiring Disassembly for Cleaning

Part Number	Instrument Name	Disassembly Instructions	Reassembly Instructions
T094-0200	Cortical Inserter Tip	Loosen threaded collar and slide back. Rotate proximal knob until laser marks are aligned and remove Cortical Inserter tip	Rotate proximal knob until laser marks are aligned. Place inserter tip into inserter. Slide threaded collar forward and tighten.
T066-0040	Implant Inserter		

3. **Table 2** describes the required steps for thoroughly cleaning the system instruments.

Table 2 – Cleaning Parameters

Step	Agent	Time (mm:ss)
	Instructions	
1. Initial Clean	Enzol Enzymatic Detergent Solution (or equivalent)	10:00
	Add one (1) ounce (30 mL) of Enzol to one (1) gallon (3.8 L) of tap water. Soak instruments immediately after use and flush detergent through all channels until evidence of organic material is removed. Soak for a minimum of ten (10) minutes. Use a soft bristle brush (Spectrum™ M-16 or equivalent) to gently remove visible debris. Pay close attention to threads, crevices, lumens and hard to reach areas. If organic material is dried-on, extend soak time and use two (2) ounces (60 mL) of Enzol per one (1) gallon (3.8 L) of warm tap water.	

2. Rinse	Deionized water	3:00
	Thoroughly rinse each instrument with deionized water including all channels to remove detergent for a minimum of three (3) minutes.	
3. Inspection	Unaided eye	1:00
	Inspect each instrument for evidence of organic material. Particular attention should be taken to remove all debris from instruments with cannulations, holes, and features that may be shielded from brushing action. Subject instruments to ultrasonic cleaning if organic matter is present after the initial cleaning step.	
4. Ultrasonic Clean (if required)	Enzol Enzymatic Detergent Solution (or equivalent)	10:00
	Prepare a fresh solution by adding one (1) ounce (30 mL) of Enzol and one (1) gallon (3.8 L) of warm tap water to a sonication unit (Branson Bransonic® Ultrasonic Cleaner or equivalent). Fully immerse the instruments in the solution and sonicate for ten (10) minutes.	
5. Ultrasonic Rinse	Deionized water	3:00
	Thoroughly rinse each instrument with deionized water including all holes and cannulations to remove detergent for three (3) minutes.	
6. Inspection	Unaided eye	1:00
	Inspect each instrument for evidence of organic material. Repeat the ultrasonic clean and rinse steps if needed.	

- Upon completion, visually inspect each instrument for contamination such as remaining soil and moisture or wetness. If soil remains, repeat the cleaning process. If wetness remains, use filtered pressurized air or lint-free wipes to dry.

INSPECTION OF INSTRUMENTS

- Carefully inspect each instrument to ensure all visible blood and soil has been removed.
- Inspect instruments and instrument cases for damage. Check action of moving parts to ensure proper operation.
- If damage or wear is noted that may compromise the proper function of the instrument or instrument case, do not use and contact customer service or your X-spine Systems representative for a replacement.
- If corrosion is noted, do not use and contact customer service or your X-spine Systems representative for a replacement.

STERILIZATION OF INSTRUMENTS

All instruments are provided non-sterile and must be sterilized before use. All instruments must be free of packaging material and bio-contaminants prior to sterilization. To achieve a sterility assurance level of not less than 10^{-6} , all non-sterile instruments should be autoclave sterilized using the following validated cycle parameters:

Saturated steam method, pre-vacuum air removal, 270° F (132° C), 4-minute exposure time, 30-minute dry time, in a double-wrapped case configuration.

M Manufactured by:

X-spine Systems, Inc.
452 Alexandersville Rd.
Miamisburg, OH 45342 USA
Phone: (800) 903-0640
Fax: (937) 847-8410
www.x-spine.com

Y CAUTION: Federal Law (USA) restricts this device to sale by or on the order of a physician.

h Part Number
X094-2003 rev A