



## Warranty and Instructions for Care

### Warranty

X7 Orthodontic Instruments include a lifetime warranty against materials defects and craftsmanship. Like all Orthodontic companies, 'lifetime' references the expected life of the product. Cutting instruments and wire benders are guaranteed for seven years and utility pliers for ten years. This covers breakage and joint failure under normal use. Proper cleaning and maintenance is required to maintain this warranty. Note: Misuse, abuse, or failure to strictly follow the recommended wire cutting maximums, lubrication, cleaning, and sterilization procedures will void all warranty claims. In the event of a warranty claim, it is at the sole discretion of Ortho Technology to repair or replace the instrument. Sharpening cutters and/or repairing minor tip damage is not covered by warranty as this is considered to be routine maintenance for normal use.

### Cleaning

Remove loose debris and clean immediately after use. Use an ultrasonic cleaner with distilled water and enzymatic cleaning solution to clean instruments and change solutions daily. It is recommended to clean and sterilize hinged instruments in the open position. If instruments are cleaned incorrectly, discoloration and oxidation may occur. Use detergents and disinfectants appropriate for use with medical or dental instruments and follow manufacturer's instructions on concentration and length of exposure. Proper cleaning methods will ensure long life of the instrument.

### Corrosion

Although X7 Orthodontic Instruments are highly resistant to corrosion, it is advised to carefully follow instructions for care. Prevent mixing new instruments with corroded instruments as oxidation may spread to new instruments. It is recommended to discard and replace any corroded instrument. Keep in mind that non-corrosive discoloration may appear, and remaining organic materials that look like corrosion can be mistaken for rust.

### Lubrication

Routine lubrication prior to sterilization ensures long-life of your instruments. This process should be strictly followed using lubricants designed for precision hinged instruments. Make sure to use a lubricant that is compatible with the operating temperatures of your dry heat unit if a dry heat sterilizer is used.

### Sharpening

Regular sharpening ensures consistency, effectiveness, and long service life. Sharpening intervals may vary based on usage habits - frequency of use, wire diameter, and wire type with the specific cutter. Examine cutters regularly to decide if sharpening is needed.

### Sterilizing

It is recommended to sterilize instruments in the open position. Lubricate prior to sterilizing. X7 Instruments are designed for use with steam autoclave, as this method will not dull cutters. Sterilizing units must be clean and in proper operating condition. Steam sterilize for at least 4 minutes at 270°F/132°C or 30 minutes at 250°F/121°C. Recommend 30 minute dry time after sterilization cycle. Other types of sterilizing methods involve dry heat or chemical vapor. Note: Dry heat sterilizers may cause cutting instrument edges to dull faster. It is not recommended to use cold sterilants as they are chemically incompatible with X7 Instruments.

### Warranty Returns

Instruments that have not been misused or abused, and are defective under the terms of the warranty policy, may be returned to Ortho Technology for repair or replacement at the sole discretion of Ortho Technology. Include the Return Merchandise Authorization (RMA) number which can be obtained by contacting our Customer Service Department (US: 1-800-999-3161 or Outside US: 1-813-991-5896). Due to OSHA regulations regarding possible exposure to bloodborne pathogens, Ortho Technology is prohibited from accepting instruments for evaluation without proof of sterilization. Unless proof of sterilization is evident, Ortho Technology reserves the right to either destroy these items or return them to the customer.



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