

# Storage and Sterilization

## Instructions for Use

### Storage and Shelf Life of Pre-Sterilized Products

50°C (122°F Max). See package for expiration.

### Cleaning and Sterilizing SS White Dental, Inc. Rotary Dental Instruments

The intention of these instructions is to provide guidelines for the sterilization of rotary dental instruments.

Unless otherwise indicated, all instruments are supplied clean but not sterile. It is the user's responsibility to sterilize instruments before the first use and if applicable, before each additional use. Instruments indicated as non-sterile single use should be processed following these guidelines before the initial use only and then properly discarded.

### Warnings:

Used rotary instruments should be considered contaminated and shall be handled following appropriate precautions and guidelines. Personal protective equipment (PPE) including gloves, mask, and eye protection should be worn. Further controls may be required if specific patient risks are present.

### Cleaning:

Automatic Cleaning is the recommended method for pre-sterilization cleaning. Follow the machine manufacturer's recommended method while utilizing approved agents for the cleaning of rotary dental instruments. If there is an excessive delay between use and cleaning, manual cleaning may be required. In the case that automatic cleaning is not available, rotary dental instruments may be cleaned manually. Manually brush debris from instruments under running water with a wire brush and approved cleaning agent. PPE should be worn and care taken to avoid spreading contaminants during the brushing process. After cleaning, dry instruments with paper towel or dry heat not exceeding 140°C. Inspect and properly discard any instruments with signs of excessive wear, damage or corrosion.

### Sterilization:

Saturated steam under pressure (autoclave) is the recommended method of sterilization for rotary dental instruments. The recommended cycle is 20 to 30 minutes at 121°C (250°F) at 15 to 30 psi. For faster processing a rapid cycle of 3 to 10 minutes at 135°C (275°F) at 25 to 30 psi is also acceptable. Operation of the autoclave should follow the manufacturer's recommended methods and materials.

### Storage:

After sterilization, store instruments in a dry, clean, and ambient temperature environment.

### Validation:

These processes have been validated on SS White Dental rotary dental instruments. Following these instructions along with the instructions of the equipment utilized remains the responsibility of the user. Proper steps should be taken to ensure all equipment is operating safely and properly in accordance with manufacturer's guidelines. Any deviation from these guidelines may require subsequent validation and monitoring for effectiveness and potential risks. Results are maintained by SS White Dental, Inc.





## Instructions for Use

Risk if re-used - If product is used properly, after initial use, cutting ability will be compromised.

Please remember that the single-use SS White Smartburs<sup>®</sup> Instrument is especially designed to remove only decayed material after you have created access using another instrument. The patented SS White Smartburs<sup>®</sup> II Instrument is designed not to cut or remove enamel, composite, amalgam or healthy dentin. The instrument dulls when it comes in contact with these harder substances. As a result it is designed to conserve healthy tooth structure and protect against unintentional pulp exposures.

## Important Steps When Using Smartburs<sup>®</sup> II Instruments

- 1) Create direct access to decay using appropriate carbide burs; then switch to a SS White Smartburs<sup>®</sup> II Instrument to excavate carious dentin.
- 2) Use your SS White Smartburs<sup>®</sup> II Instrument with your existing latch slow-speed handpiece. Use your slow-speed handpiece at 5,000 to 10,000 RPM to remove decayed dentin. Note: Using the Smartburs<sup>®</sup> II at the lower end of this range (5,000) will extend the service life of the instrument
- 3) Begin decay removal with a circular, light brush stroke. Start in the center and top of the carious lesion, working your way to the periphery. Return to the center and proceed down into the decay after top layers are removed, taking care to reduce contact with the axial walls.
- 4) When the SS White Smartburs<sup>®</sup> II Instrument contacts healthy dentin, you will tactilely sense a vibration, as the instrument is unable to cut healthy tissue.  
Note: Prolonged contact with enamel or restorations will rapidly degrade the SS White Smartburs<sup>®</sup> II Instrument's working end.
- 5) After repeated contact with healthy tissue, the polymer edges of the SS White Smartburs<sup>®</sup> II Instrument will roll and become deformed. You will feel tactile smoothness when the instrument is spent.
- 6) Verify caries removal with an explorer and/or caries dye\*. If needed, use a fresh SS White Smartburs<sup>®</sup> II Instrument to remove any remaining decay and verify caries removal again.
- 7) When decay is completely removed, fill the cavity with a restorative of your choice. Dispose of the used SS White SmartBurs<sup>®</sup> II Instrument.

\*Caries dyes may be useful in assessing dentin decay removal. In general, brightly red stained dentin is highly softened and highly infected, and indicated for removal. Lighter pink staining dentin may be affected or healthy tissue and should be inspected with an explorer to assess the need for removal.



## Assessing Caries Removal

Natural dentin staining within a carious lesion (tan, brown, black) may be healthy or caries affected dentin that does not need to be removed. Using your explorer in dentin is a generally accepted method to verify caries removal. When working in deep carious lesions it is often difficult to detect the amount of remaining healthy dentin adjacent to the pulp and the risk of pulp exposure becomes a concern. SS White Smartburs®II instruments can help you protect against unintentional pulp exposure.

## Reorder Information

Description	Size	Order No.	Unit of Sale
SmartBurs®II	RA #4	52000	Pkg. of 10
SmartBurs®II	RA #6	52001	Pkg. of 10
SmartBurs®II	RA #8	52002	Pkg. of 10
SmartBurs®II Combo Pack	RA #4	52003	Pkg. of 25
	RA #6		5 Each RA #4
	RA #8		5 Each RA #6
			5 Each RA #8

## Warnings

SS White Smartburs®II Instruments may not be appropriate for all patients under all circumstances, so professional judgment and discretion should be exercised at all times. SS White Smartburs®II Instruments should be used only by licensed dental professionals with appropriate levels of clinical experience and training. Caution and care should be utilized at all times. Treatment options and techniques outlined in this insert are suggestions may experience discomfort if anesthesia is not administered prior to treatment or if only and may not be appropriate for all patients. Some patients excess levels of force are applied during treatment. Vibration and other side effects may be reported by some patients and treatment results may vary. Dentists must apply appropriate levels of force when using SS White Smartburs®II Excessive force can cause premature wear and tear to the instruments. Use your professional judgment.

## Disclaimer of Warranties

SS White Smartburs®II Instruments are provided without warranties of any kind, as-is and with all faults, SS White Burs, Inc., its agents, affiliates and representatives ("SS White"), hereby disclaim all warranties, express or implied, regarding SS White Smartburs®II Instruments, including, without limitation, warranties of merchantability, non-infringement and fitness for a particular purpose.

## Limitation of Liability

SS White disclaims all liability and damages of any kind resulting from intentional or negligent conduct or otherwise that arise out of the use or misuse of any SS White instruments or these instructions. 1. U.S. Patent Nos. 6,106,291 and 6,347,941





## Instructions for Use

Use your SS White Jazz Instrument with your latch slow-speed handpiece at the recommended RPM below.



1-step diamond polishing system for smoothing and polishing dental composites to the ultimate shine.

**Indications:** Ultimate single-step polishing of all composite restorations.

**Directions for use:** Trim and smooth restoration with diamond or carbide finishing bur to maximum smoothness.

- 1) Polish with Jazz Supreme beginning with firm pressure and higher speed. Maximum rpm: 15,000. Wipe restoration with cotton. Continue polishing with reduced pressure and speed with light touch to create desired shine.
- 2) For best results, polish wet.

**Composition:** All Supreme polishers contain a synthetic rubber matrix infused with diamond particles in various sizes and pigments (mainly Titanium Dioxide). The shanks are made of stainless steel and are surface refined with gold flashing.



2-step diamond polishing system for smoothing and polishing dental composites to a high-luster.

**Indications:** High-luster polishing of all composite restorations.

**Directions for use:**

- 1) Reduce and smooth with medium grit (pink) polisher.
- 2) Finish to high-luster with fine grit (white) polisher.

**IMPORTANT:** Clean restoration surface with gauze between polishing steps to remove polish residues. Polish wet at 8,000 rpm. Maximum rpm: 15,000.

**Composition:** All C2S polishers contain a synthetic rubber matrix infused with diamond particles in various sizes and pigments (mainly Titanium Dioxide). The shanks are made of stainless steel.



1-step diamond polishing system for smoothing and polishing dental composites to a high-gloss.

**Indications:** High-gloss single-step polishing of all composite restorations.

**Directions for use:**

- 1) Polish finished restoration until desired shine is achieved. Polish wet at 8,000 rpm. Maximum rpm: 15,000.

**Disposable tool NOT for Reuse.**



**Composition:** All C1S polishers contain a synthetic rubber matrix infused with diamond particles in various sizes and pigments (mainly Titanium Dioxide). The shanks are made of high performance polymer.



3-step polishing system for smoothing and polishing dental porcelain and metals to a high-luster.

**Indications:** High-luster polishing of all porcelain & metal restorations.

**Directions for use:**

- 1) Reduce and trim with coarse grit (green) polisher.
- 2) Smooth with medium grit (pink) polisher.
- 3) Finish to high-luster with fine grit (white) polisher. Polish wet or dry at 8,000 rpm. Maximum rpm: 15,000.

**Composition:** All P3S polishers contain synthetic rubber, diamond grain in various sizes and pigments (mainly Titanium Dioxide). The shanks are made of stainless steel.



2-step polishing system for smoothing and polishing dental porcelain and metals to a high-gloss.

**Indications:** High-gloss polishing of all porcelain & metal restorations.

**Directions for use:**

- 1) Reduce and smooth with medium grit (pink) polisher.
- 2) Finish to final gloss with fine grit (yellow) polisher. Polish wet or dry at 8,000 rpm. Maximum rpm: 15,000.

**Disposable tool NOT for Reuse.**

**Composition:** All P2S polishers contain a silicone matrix infused with silicon carbide particles in various sizes and pigments (mainly Titanium Dioxide). The shanks are made of high quality polymer.

**Warnings:** The product should not be used if a patient is known to be allergic to any of the ingredients of the polishing instruments. Avoid inhaling grinding dust. Do not exceed maximum rotary speed.

**Storage:** Storage temperature 2-28°C/36-82°F. Do not expose to direct sunlight. Keep out of the reach of children! For use in dentistry only!

**Cleaning Instructions:**

- 1) Clean burs of visible debris. Automatic washing is preferable.
- 2) Autoclave on a short cycle at a temperature of less than 130°C.



## Instructions for Use

EndoGuide® Burs are a unique series of eight burs for non-surgical root canal treatment. Specifically designed to maximize efficiency during endodontic exploration and access while conserving healthy tooth structure. The patented<sup>1</sup>, conical shaped micro-diameter tip of the EndoGuide® Burs acts as a self-centering guide to permit straight-line access to canals. EndoGuide® Burs blade design functions to effectively polish the dentin surface as it cuts, making visual dentin mapping easier and canal identification more precise. Two EndoGuide® kits address the specific endodontic needs of Anterior/Bicuspid teeth and Molar teeth. Individual EndoGuide® Burs are also available (See Table A).



**EndoGuide® Anterior/Bicuspid Kit**  
(For Endodontic Access and Exploration) #18052  
Contains all instrumentation to create endodontic access through metal, porcelain and zirconia



**EndoGuide® Molar Kit**  
(For Endodontic Exploration) #18051  
Contains seven EndoGuide® Burs designed to increase visibility and control during endodontic exploration in molars.

**NOTE:** Initial access and de-roofing in molars should be performed with the Great White® #2 bur or Great White® Z Diamonds supplied in the EndoGuide® Anterior/Bicuspid Kit for Endodontic Access and Exploration, order #18052.

## Operational Instructions

1. EndoGuide® Burs are task specific; each bur is designed for a particular area of use during endodontic access and canal exploration.
2. While EndoGuide® Burs are diminutive in size, they are very efficient cutters in both the vertical and lateral directions. To maximize cutting efficiency and avoid bur breakage, it is recommended that the clinician applies only enough pressure to guide the bur while allowing the instrument to progress through the substrate. When used for troughing procedures, a light sweeping motion is suggested.
3. Excessive force to the instrument, especially in a lateral direction, can lead to bur damage.

## Initial Access Through Restorations/Tooth Surfaces

1. Identify the material makeup of any existing restorations that must be removed or penetrated to gain access.
2. Once identified, select the appropriate instrument for the task. (See Table A)

**NOTE:** SS White® Complete Restoration Removal Kit (Order #18180) contains instrumentation specifically designed for efficient, non-traumatic removal of failed amalgams, composites, PFM crowns, and all-ceramic crowns, including zirconia and lithium disilicate ceramics.

## Endodontic Access and Exploration

EndoGuide® Burs are ideal for use when performing micro-endodontics using magnification-enhanced vision via a dental operating microscope or loops. For best product performance, always match the EndoGuide® Bur to the task to be performed (See Table A). Slow-speed EndoGuide® Burs are those with SLRA (Surgical Length Right Angle) and XLRA (Extra-Long Right Angle) shanks for use in standard slow-speed right-angle latch handpieces at slow-speed rpm ranges appropriate for endodontic procedures. High-speed EndoGuide® Burs are those with SLRA (Surgical Length Friction Grip) shanks for use in standard high-speed friction grip handpieces at high-speed rpm ranges appropriate for endodontic procedures.





## Precautions

1. Before each use, inspect the bur for damaged blades or signs of excessive wear. Discard worn burs.
2. Maintain handpieces in accordance with the manufacturer's instructions.
3. Fully seat the bur into the chuck mechanism to eliminate non-concentric operation.
4. Do not exceed manufacturer's suggested speed recommendations.
5. Clean and sterilize burs in accordance with the instructions provided by the manufacturer of your sterilization unit. Do not immerse carbide burs in cold sterilizing solutions or other strong oxidizing agents.










## Warnings

SS White® EndoGuide® Burs may not be appropriate for all patients under all circumstances, so professional judgment and discretion should be exercised at all times. SS White® EndoGuide® Burs should be used only by licensed dental professionals with appropriate levels of clinical experience and training. Caution and care should be used at all times. Treatment options and techniques outlined in this insert are suggestions only and may not be appropriate for all patients. Dentists must apply appropriate levels of force when using SS White® EndoGuide® Burs. Excessive force can cause premature wear to the instruments. Use your professional judgment.

## Limitation of Liability

SS White® disclaims all liability and damages of any kind resulting from intentional or negligent conduct or otherwise that arise out of the use or misuse of any SS White® instruments or these instructions. 1. U.S Patent No. 6,257,889 B1

Use the following reference guide (Table A.) when matching EndoGuide® Burs to the task to be performed

Kit and Bur Reference Guide: SS White® EndoGuide® Precision Micro Endodontic Burs							
Bur #	Bur Photograph (Actual Size)	Head Length (mm)	Reorder Pkg. Size	SS White Order #	Included in: Anterior/Bicuspid Kit #18052	Included in: Molar Kit #18051	Recommended Applications
EG1A	 SLFG* Length = 27mm	2.5	5-pk	15066	YES	NO	• Initial access in non-restored anterior and bicuspid teeth
EG1	 SLRA* Length = 27mm	3.5	5-pk	14780	YES	YES	• Deep troughing • Deeper orifice enlargement and calcified canals
EG2	 SLRA* Length = 27mm	2.5	5-pk	14779	YES	YES	• De-roofing pulp chamber • Deep orifice enlargement and calcified canals
EG3	 SLFG* Length = 27mm	1.5	5-pk	15023	YES	YES	• Initial access for small incisors • Troughing and navigating calcified canals
EG4	 SLFG* Length = 29mm	3.5	5-pk	15029	NO	YES	• Deep troughing • Navigating super ovoid and calcified canals
EG5	 XLRA* Length = 34mm	1.5	5-pk	14794	NO	YES	• Deep troughing • Retrieving separated instruments • Navigating deeply calcified canals
EG6	 XLRA* Length = 34mm	2.5	5-pk	14795	NO	YES	
EG7	 XLRA* Length = 34mm	1.5	5-pk	14786	NO	YES	
SS White Great White® Carbides and Diamonds							
GW2	 FG Length = 19mm	4.0	10-pk 100-pk	15062 13095	YES	NO	• Metal crown access or removal • Amalgam restoration and decay removal • Molar initial access and de-roofing
GWZ 856-018 (Round End Cone)	 FG Length = 22mm	8.0	5-pk	18161	YES	NO	• Ceramic/zirconia crown removal • Molar initial access and de-roofing
GWZ 801-018 (Round)	 FG Length = 19mm	1.8	5-pk	18163	YES	NO	• Initial access through ceramic/zirconia crowns • Molar initial access and de-roofing

\*NOTE: SLRA (Surgical Length Right Angle) and XLRA (Extra-Long Right Angle) shanks are for use in right angle latch slow-speed handpieces; SLFG (Surgical Length Friction Grip) shanks are for use in friction grip high-speed handpieces.