

ALGERBRUSH II CORNEAL BURR

USER MANUAL



Item no. 170010

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1. GENERAL INFORMATION

Please read the following before operating the AlgerBrush II.

- The AlgerBrush II burr must be sterilised prior to its initial use and following each use thereafter (for sterilisation information refer to section entitled “Sterilisation of the AlgerBrush II”).
- The chuck and burr on the AlgerBrush II are held together by friction and may become loose during shipment. Prior to each use of the AlgerBrush II check the following:
 1. Burr fits snugly within the chuck
 2. Chuck fits snugly on the motor shaft



Attention!

If either of the above parts is loose injury to the patient could result if the assembly falls off during use. Please refer to section entitled “Chuck and Burr Maintenance”.



Figure 1



2. OPERATION

- To start the AlgerBrush II turn end nut in “ON” direction indicated on AlgerBrush II label, i.e. to the right.
- To stop the AlgerBrush II turn end nut in “OFF” direction indicated on AlgerBrush II label, i.e. to the left.
Note: To ensure AlgerBrush II is off check that the chuck and burr have stopped spinning.

3. INSTALLATION / CHANGING OF BATTERY

Note: When changing the battery, care should be taken not to put pressure on the battery clip as it may break at the point where it attaches to the motor.

- Remove chuck and burr assembly (see section entitled “Installation of Chuck and Burr Assembly”).
- Remove end nut.
- Slide motor and battery out of housing.
- Battery must be installed minus pole first (next to motor; see AlgerBrush II diagram above).
If battery installed plus pole first the AlgerBrush II will not function properly.
- Place the new battery between motor and battery clip (minus pole next to motor).
- Re-insert motor and battery assembly into housing.
- Ensure motor seated properly in housing by checking the following:
 1. Motor shaft centered in hole at tip of housing.
 2. Tip of motor shaft just even with top of housing.
- Partially tighten end nut.

Note: If motor starts spinning see section above entitled “Operation of the AlgerBrush II” for instructions to stop motor.

4. INSTALLATION OF CHUCK AND BURR ASSEMBLY

Note: Motor must be spinning when installing chuck and burr assembly to ensure motor seated properly.

- To install ensure motor is spinning i.e. AlgerBrush II is “ON”.
 1. Gently push chuck and burr assembly onto motor shaft.
 2. Base of chuck should be close to, but not touching, top of housing.
 3. Turn “OFF” AlgerBrush II until ready to use.
- To remove:
 1. Grasp base of chuck with fingers and pull away from motor shaft – or –
 2. Gently pry chuck off motor shaft with suitable instrument.
 3. Turn “OFF” AlgerBrush II until ready to use.
- To replace burr:
 1. Remove chuck and burr assembly from motor shaft (see instructions above).
 2. While grasping base of chuck with fingers, grasp shaft of burr with Foley hemostat and pull apart.
 3. To insert new (sterilised) burr use Foley hemostat to grasp burr (grasp in middle of shaft); then push chuck onto bottom of burr shaft until snug.

Note: burr fits into “longer” end of chuck; see drawing of chuck and burr figure 1.

5. CHUCK AND BURR MAINTANANCE



Attention!

Chuck and burr assembly are held together by friction; should they become loose or not fit snugly use, the following procedures to tighten.

- If base of chuck becomes loose on motor shaft, pinch base of chuck gently with small pliers as shown in Figure 2 below.
Note: Slit in base of chuck should be facing directly away from you.
- If burr becomes loose in chuck pinch longer portion of chuck gently with small pliers as shown in Figure 3 below.
Note: Slit in longer portion of chuck should be facing directly away from you.

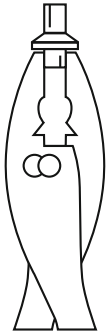


Figure 2



Figure 3

6. STERILISATION



Attention!

Do not autoclave the entire instrument! It will be ruined!

- Remove chuck and burr assembly from AlgerBrush II (per instructions above). Separating burr by itself is fine but burrs are small and hard to handle; therefore it is easier to keep chuck and burr assembly together.
- Housing can be cleaned by wiping with alcohol.
Refer to Appendix for validated sterilisation and cleaning procedures.

APPENDIX: CLEANING AND STERILISATION INSTRUCTIONS

Scope

The following is applicable before initial use and after each subsequent use. Carbide burrs are provided mechanically clean but are not sterile (unless labeled "STERILE"). Therefore carbide burrs should be sterilised before first use.

Warnings

- Do not use chemical or dry heat to sterilise carbide burrs as these processes have not been validated for use.
- Cleaning agents with chlorine or chloride as the active ingredient are corrosive to stainless steel and must not be used. Cleaning agents with neutral pH are recommended.
- Do not use cold sterilising methods for the sterilisation of burrs. These agents often contain strong oxidizing chemicals that may dull or weaken burrs.
- Do not use enzymatic solutions for cleaning or debriding burrs

Reprocessing Limitations

- The end of life is determined by wear and damage in use. Carbide burrs should be inspected for defects (i.e. broken tips, broken sections on flutes etc.) during the cleaning process.

Point of Use

- Delay in reprocessing must be kept to a minimum to avoid contaminants drying thereby making cleaning more difficult.

Containment / Transportation

- Carbide burrs can be transported wet or dry and should be protected from damage. If transported wet there is an increased chance of staining or corrosion. Prolonged storage in disinfectant solutions may result in degradation of the product and must be avoided.

Ultrasonic Cleaning Procedure

- Prepare a fresh pH-neutral cleaning solution; place the carbide burr in the dedicated instrument block (if applicable) and then place in a sonication unit. Follow the agent manufacturers' instructions for correct concentration, exposure time, temperature and water quality. Completely submerge the device in the cleaning solution and sonicate for at least 15 minutes.
- Perform a final thorough rinse of the device and instrument block if applicable under running warm tap water for at least 1 minute.
- Visually inspect to confirm the removal of debris. Repeat the cycle if needed.
- Dry the device using a non-shedding wipe or clean compressed air.

Inspection Testing

- Carefully inspect each device to ensure that all debris has been removed.
- Visually inspect the device for damage/wear that would prevent proper operation:
 - Do not use if the tip is broken.
 - Do not use if there is a broken section of a flute.
 - Do not use if there is evidence of corrosion.

Packaging

- Singly: Pack the carbide burr in pouches validated for sterilisation.
- In sets: Place the carbide burr in the dedicated instrument block.

Sterilisation

Use the following cycle for sterilisation:

Cycle Type	Minimum Sterilisation Exposure Time	Minimum Sterilisation Exposure Temperature	Minimum Dry Time
Gravity	10 minutes	135 °C (275 °C)	30 minutes
Pre-vacuum (four pulses)	3 minutes	134 °C (273 °C)	30 minutes

Ensure that the steriliser manufacturers' maximum load is not exceeded.

Storage

- The carbide burr should be stored in the sterilisation pouch (or instrument block) until required.

Additional Information

- These processes have been validated as being capable of preparing carbide burrs for reuse. Any deviation from these instructions should be properly validated for effectiveness and potential adverse results.

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