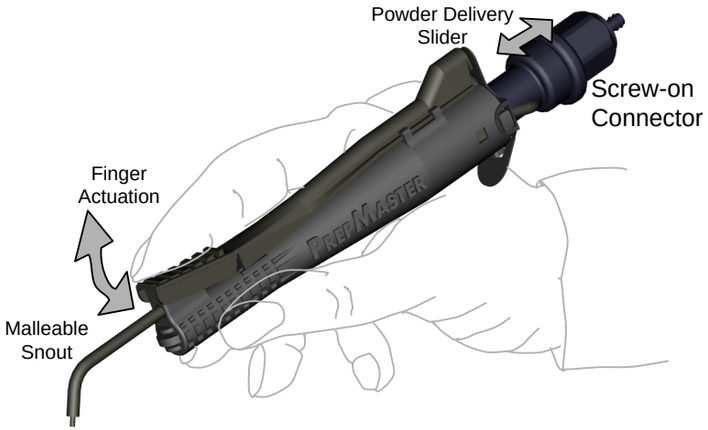
GENERAL OPERATION

The Groman PrepMaster® is a disposable single-use self-contained air abrasion instrument that is powered by house air available at every dental chair. A single PrepMaster® is able to perform all classes of cavity preparation, as well as surface etching for cement removal and bond preparation. It is held as a standard dental handpiece and plugs into the standard house air supply using a screw-on connector. The finger-activated Flow Control Actuator mounted on the device provides instantaneous On/Off flow control while a connector mounted Powder Delivery Slide regulates the powder delivery rate. The PrepMaster® may be utilized in a continuous sweep over the target area, or in a pulsating operation so as to sandblast the tooth surface removing material structure and penetrating to the desired depth.

Higher operating pressures provide faster cutting rates and increase in patient sensitivity. For most efficient and comfortable operation 60-100 psi is recommended. Since some chair connections may be pressure-limited, a Hook-up Kit for easy connection to house air may be required. The malleable nozzle snout provides for quick nozzle positioning. The nozzle is held about 1mm from the tooth surface; holding the instrument further away from the target surface increases the size of the affected surface while reducing the powder impact. The instrument defaults into a light powder delivery rate when mated to the screw-on connector. Engaging the connector mounted Powder Delivery Slider increases the powder delivery rate and cutting rate.



Hook-up Kit - Quick disconnect kits allow easy connection to house air. Full pressure air line is cut and slid onto barbed tee. Female disconnect and pressure regulator can be panel mounted. See www.GromanInc.com for detailed information.

Groman PrepMaster®

Groman Inc.
4900 NW 15th Street, #4494
Margate, Fl 33063
Phone: 954-649-8008

Manufactured in USA
Under FDA Clearance

USP#6,347,984 & 6,398,628
Patents Pending US and Int'l

Net Quantity: 10

Batch Lot:_____

Non-Sterile

Single Use Only

Nozzle Orifice Diameter: 0.5mm (.019")

27µ Aluminum Oxide

Caution: Federal Law restricts this device for sale by or on the order of a licensed dentist.

INDICATIONS FOR USE

- Cutting and preparation of tooth structure, both enamel and dentin for all classes of cavity preparations.
- For removal of composite restorations.
- For roughening and/or etching of tooth surfaces, enamel, dentin, and dental restorations for adhesive restorative procedures.

SAFETY

See backside for detailed instructions. Read the instructions carefully before using this unit. The manufacturer, distributor, or retailer of this product can exercise no control over the use of the Groman PrepMaster®.

- This is a disposable device. Dispose after single patient use regardless of the remaining quantity of powder.
- DO NOT attempt to sterilize, refill or reuse.
- Failure to depress the clip tab will result in premature release of abrasive stream when mounting the screw-on connector.
- Once the clip tab is depressed, never attempt to straighten and re-depress the clip tab.
- Mounting and pressurizing the device more than once will degrade device operation.
- Federal Law restricts this device to sale by or on the order of a licensed dentist.
- Rubber dam must be used to protect adjacent teeth and soft tissue. Matrix band should be used to protect adjacent teeth during interproximal preparation.
- Due to the alumina powder, it is necessary to protect the eyes of anyone present in the treatment room during the procedure, namely the patient, assistant and dentist. For patient protection goggles and/or face (eyes and nose) covering with powder resistant material is recommended. All treatment room personnel should already be wearing eye protection. We recommend dental personnel wear face shields over safety glasses and masks for extra protection.
- Do not use oxygen or other flammable or toxic gases as propellant.
- Keep the body of the PrepMaster® pointing downward to maintain consistent powder delivery rate.

CAUTION: Do not point the PrepMaster® nozzle towards your face or eyes. Always wear protective safety glasses when using this device. NEVER refill and/or reuse the device once it has run out of material. Safely dispose after use.

USER INSTRUCTIONS

IMPORTANT - REVIEW SAFETY PRECAUTIONS PRIOR TO USE

See backside for detailed instructions.

FIRST TIME USERS - Air abrasion has been used by dentists for almost 50 years. In the past decade professional and patient demand has increased as direct result of improvements in the quality of restorative materials. Air abrasion uses a stream of fine aluminum oxide particles propelled by a compressed air to develop cavity preparations, condition indirect restorations for cementation, etch teeth prior to restoration, and prepare porcelain surfaces for repair. Many dental professionals now rely heavily on air abrasion due to its efficacy, clinical results, and increased patient comfort. As a practice improvement tool, the use of air abrasion technology:

- Allows for the maximum conservation of tooth structure
- Reduces and eliminates vibration, chipping, and micro-fracturing
- Reduces the need for anaesthetic in the vast majority of common procedures
- Achieves a high level of patient acceptance and comfort while reducing post-op sensitivity
- Allows for multiple quadrant treatment in one visit
- Is suitable for all bonding procedures
- Cleans pits and fissures before sealant application

Excessive air abrading will erode most surfaces. Practice and experiment on typodonts, pennies, stainless steel, extracted teeth, or glass slides before actual use. These surfaces will simulate both precious and non-precious alloys and porcelain.

INSTALLATION

See backside for detailed instructions. Check www.GromanInc.com web site for additional information.

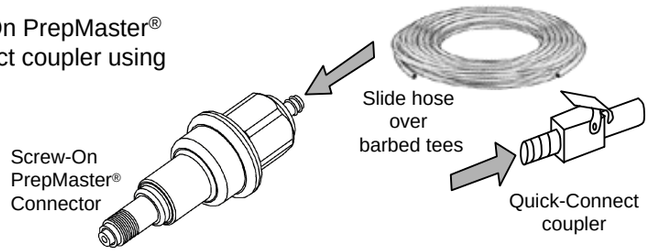
The Groman PrepMaster® operates off the standard dental unit requiring operational pressures of 60psi to 100psi. There is a reduction in sandblasting action as the pressure is reduced below 100 psi, and an increase in sandblasting action above 60psi. Bottled gas such as CO2 or highly compressed air can be used with a regulator. **Oxygen, flammable, or toxic gases must NOT be used.**

Installation Instructions:

(Back Side - PUB-020-B)

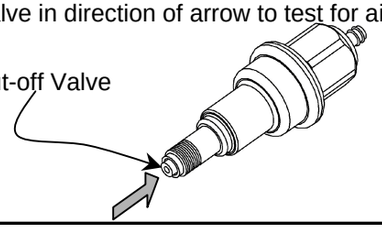
Step 1 – Connect the Screw-On PrepMaster® connector to the Quick-Connect coupler using the supplied hose.

Hook-up Kit - Quick disconnect kits allow easy connection to house air. Full pressure air line is cut and slid onto barbed tee. Female disconnect and pressure regulator can be panel mounted.



Note: Standard handpiece connections are usually pressure-limited. Use the Quick-Connect to provide higher operational pressure directly from a pressurized gas source. A Hook-up Kit may be required. Ask your local rep or check our web site for kit information at www.GromanInc.com

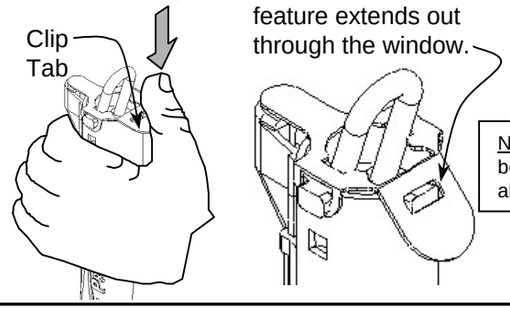
Step 2 - Plug the Quick Connect coupler to the compressed gas source. Push the shut-off valve in direction of arrow to test for air flow.



Screw-On PrepMaster® connector is now ready for use.

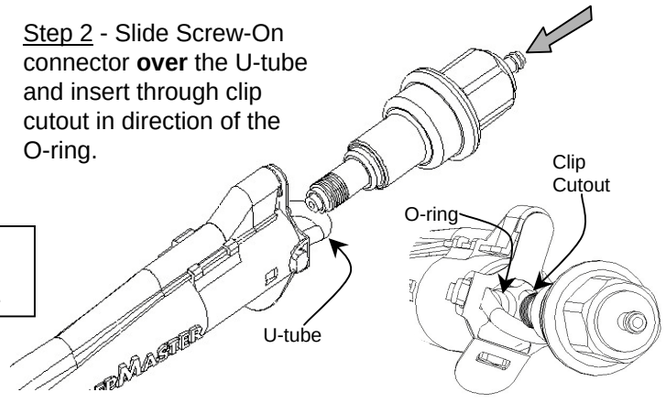
Mounting Instructions:

Step 1 - Hold instrument in palm and push with thumb on clip tab in direction of arrow until feature extends out through the window.

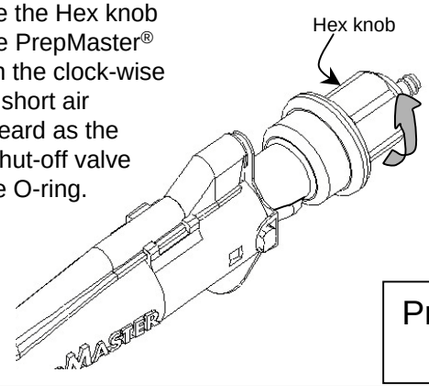


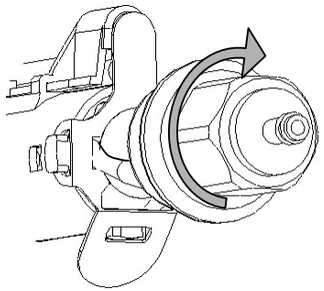
Note - Clip tab bend should be about 45 degrees.

Step 2 - Slide Screw-On connector **over** the U-tube and insert through clip cutout in direction of the O-ring.



Step 3 - Use the Hex knob to Screw the PrepMaster® connector in the clock-wise direction. A short air release is heard as the connector shut-off valve engages the O-ring.

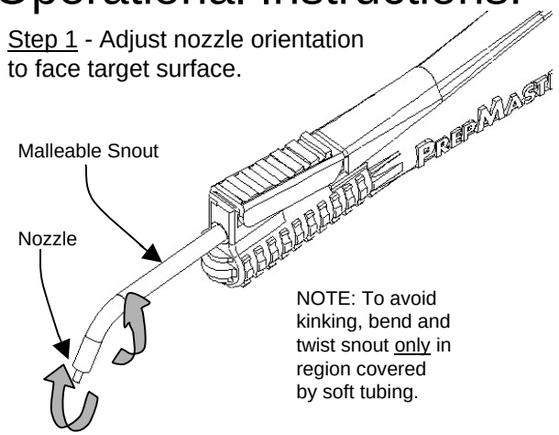




PrepMaster® is now operational

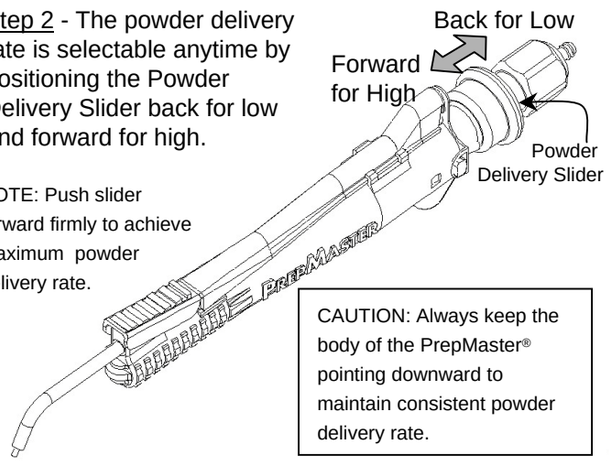
Operational Instructions:

Step 1 - Adjust nozzle orientation to face target surface.



NOTE: To avoid kinking, bend and twist snout only in region covered by soft tubing.

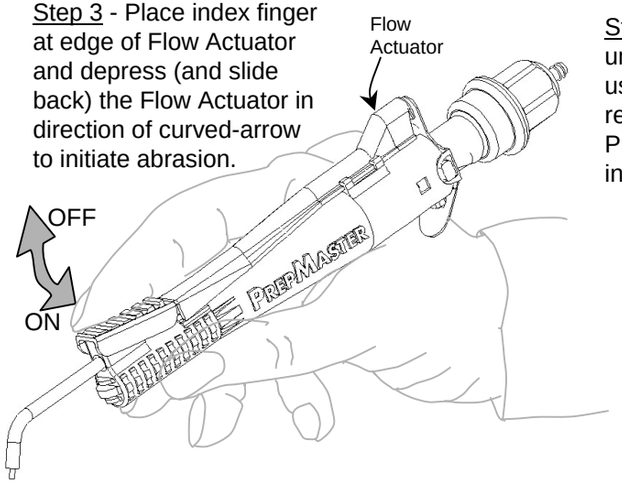
Step 2 - The powder delivery rate is selectable anytime by positioning the Powder Delivery Slider back for low and forward for high.



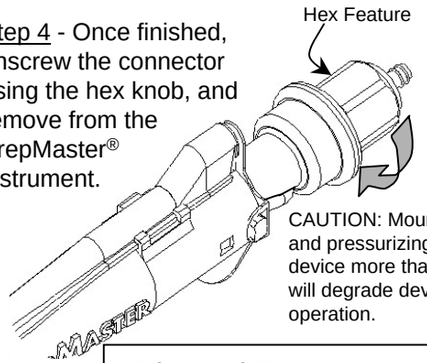
NOTE: Push slider forward firmly to achieve maximum powder delivery rate.

CAUTION: Always keep the body of the PrepMaster® pointing downward to maintain consistent powder delivery rate.

Step 3 - Place index finger at edge of Flow Actuator and depress (and slide back) the Flow Actuator in direction of curved-arrow to initiate abrasion.



Step 4 - Once finished, unscrew the connector using the hex knob, and remove from the PrepMaster® instrument.



CAUTION: Mounting and pressurizing the device more than once will degrade device operation.

Discard PrepMaster® Post-Op or once powder is depleted.