

Critical information for Patterson Service Technicians regarding Powder Meister® installation

Proper installation of the Powder Meister® is crucial to insure success in CEREC powdering. It is critical that the Powder Meister® be installed with proper air pressure.



It is necessary that the Powder Meister® is connected to an air source of at least 80 PSI. This high air pressure is then restricted to the exact pressure required for optimum CEREC powdering. **Any air pressure lower than 80 PSI will result in clogging of the instrument and will lead to much frustration with powdering and therefore the CEREC process!**

When installing the instrument using a male quick disconnect, the female quick disconnect should be connected to a direct air line. It is recommended that the air to the female quick disconnect not be regulated by the foot control.

Common Errors in Powder Meister® Installation

The instrument is supplied with a male quick disconnect. Some doctors prefer to hook directly to the handpiece hose with a 4 hole adapter. Air pressure of 80 PSI is still critical with this type of connection.

Some service technicians have not understood the importance of the Powder Meister's built-in air regulator and air line filter and have discarded this assembly to attach directly to a 4 hole adapter.



This type of installation causes problems!

- Attaching to the handpiece hose gives some degree of suck back to the air line. This will draw powder back through the blue air hose and even into the 4 hole tubing. Some doctors have had handpieces destroyed by this powder in the tubing!
- Eliminating the air regulator removes the predictable powder flow that this instrument is known for and results in bursts of powder being propelled from the powder nozzle.

Important Maintenance Information

The Powder Meister® requires simple, but regular, maintenance.

- **The cotton roll in the air line filter must be changed weekly.**

The cotton roll traps moisture in the air line that would otherwise find its way to the imaging powder. This will result in clogging of the instrument. In addition, the cotton roll is responsible for trapping any imaging powder that is sucked back into the blue air tubing.



- **The nozzle base must be cleaned weekly with water spray.**

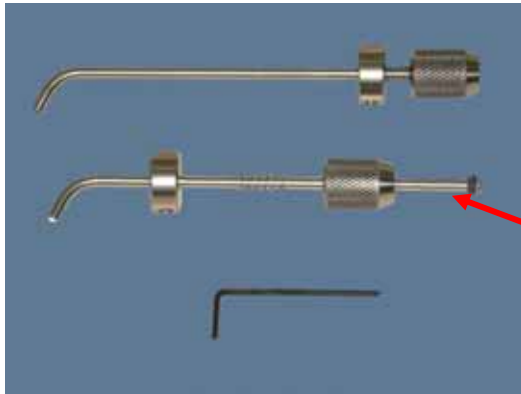
Regular cleaning of the nozzle base prevents clogging of the nozzle and will result in smooth action of the nozzle on/off mechanism. Make sure that the nozzle base and trigger are compressed to allow the water spray to penetrate deeply into the internal aspects of the nozzle base where clogging due to powder compaction can occur.



Due to the importance of the simple maintenance procedures, it would be very helpful if Service Technicians could point out these procedures to the doctors and assistants! Any difficulty with powdering leads to dissatisfaction with the CEREC technique!

Unclogging the Powder Nozzle

If the powder nozzle does clog from lack of maintenance, it is very easy to unclog.



Use the 1/16 hex wrench that comes with the Powder Meister® to loosen the nozzle trigger.

Nozzle entrance hole

Use a small dental instrument such as an explorer or a periodontal probe to clean out the small entrance hole.



If normal maintenance has not been done and it has been necessary to disassemble the nozzle, a periodontal probe can be used as a guide to obtain the proper distance between the “trigger” and the base of the nozzle. The distance is originally set at 5.5 millimeters. If this space is too close, powder will not come out. Any distance between 5.5 mm and 7 mm will provide satisfactory results.



Symptoms of a Clogged Nozzle

Depending on the degree of obstruction of the nozzle entrance hole, symptoms can manifest in any of the following three ways:

- A reduction of powder flow
- A sudden burst of powder followed by a reduced flow
- A complete stoppage of powder flow.

Please do not remove any informational tags meant for the doctor from any part of the Powder Meister®. Please make sure that the doctor receives the instructional CD along with the Quick-Start and Trouble shooting information.

Powder Meister®

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