

HANDPIECE MAINTENANCE PROCEDURE: BY THE MUKESH JAGAD - DENTAL ENGG .CO (MUMBAI)

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Do not run a hand piece with air pressure exceeding the recommended value of 2.2 to 2.7 kg/cm³ (30-40 psi).

Do not run a hand piece without a bur or a loosely mounted one. This could force out the chuck, causing damage to it bearings

Do not use a bent, damaged, non-concentric or irregularly worn bur.

Do not tighten the chuck using a bur tool without a bur in the hand piece.

Do not turn the chuck excessive with the bur tool, to install or remove a bur. A ¼ or ½ counter clockwise turn is sufficient.

Do not push the head cap in the push button type hand piece during rotation, to prevent excessive heating of bearings & failure of push button mechanism.

Always use a bur of ISO- Standard shank diameter & correct length as prescribed by hand piece manufacturer.

Always keep the burs clean .Dirt and debris on the shank may cause clogging of the chuck, loss of grip or premature wear of the chuck.

Insert the bur all the way into the chuck until it stops .Bur fully not inserted leads to premature bearing failure due to poor bur concentricity & resultant vibration.

Stop using the hand piece, as soon as its fallen down. The cartridge may seem undamaged if there is no dent on hand piece body and it might work beautifully for a couple of days, before losing its life.

Drilling of the tooth has to be done with diamond tip and with hand piece torque and not by applying axel force by your hand .This might result in failure of the cartridge

Hand pieces should be lubed prior to sterilization and after sterilization (2-3 drops of oil or 1-2 seconds of spray lube). At least lubricate your hand piece twice a day, with Good Quality Lubricant.

There should be at least three hand pieces for every operatory (one in use, one in the autoclave, one cooling down). Excessive use and repeated autoclave cycles will greatly reduce the lifespan of a hand piece turbine and other components.

Not cleaning the chuck. - Debris builds up quickly inside the chuck (bur insertion hole) and clogs the spring and causes bur slippage. Just one spray of cleaner into the bur hole once per week will reduce this problem.

Improper Spindle Length. Look at Pica A & B stop using hand piece when Spindle is Slide out as shown in figure B /

A

B

