

330E HIGHSPEED HANDPIECE INSTRUCTIONS FOR USE

FOR PROFESSIONAL USE ONLY - NON-STERILE



Warning: This product is intended for use by dental professionals only. Before operating handpiece, carefully read and follow these instructions and save them for future reference. Observe all cautions and warnings.

Caution: Federal USA law restricts this device to sale by or on the order of a licensed dentist.

CONGRATULATIONS!

You are now the owner of the highest quality, low cost highspeed handpiece available. Protect and prolong the life of your investment by taking the time to read and carefully follow the procedures found in this Instruction sheet.

SPECIFICATIONS

Connection: ISO Type 2, 4 Hole	Weight: 38 grams	Bur Shank: ISO 1797 -1, Type 3 (Friction Grip)
Drive Air: 32psi (2.2bar) @ 50 slpm	Speed: 100-450,000 rpm	Bur Lengths: Short (16mm) or Standard (19mm)
Assist Air: 30psi (2.0 bar) @ 1.5 slpm	H ₂ O: 30psi (2.0 bar) @ 50 ml/min	Bur Diameter: Do not exceed 5mm (0.125")

Spray atomization by internal crossover bleed of drive air.

ADJUSTING DRIVE AIR PRESSURE TO PROPER SETTING

Proper drive air pressure is essential to full handpiece performance and long trouble-free operation. Excess air pressure can cause premature bearing or turbine blade failure, should never be used, and may void warranty. For long, trouble free operation, operate your handpiece using only dry, filtered air.

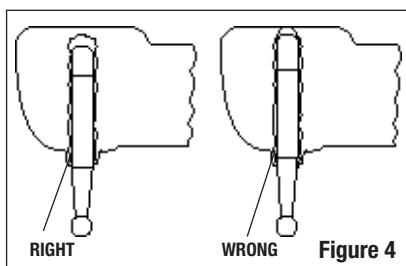
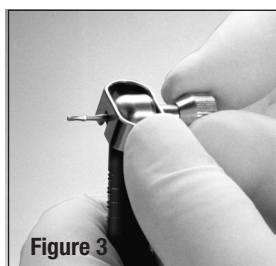
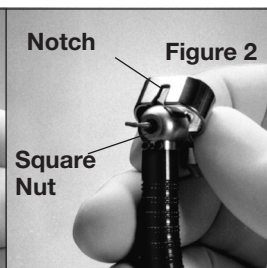
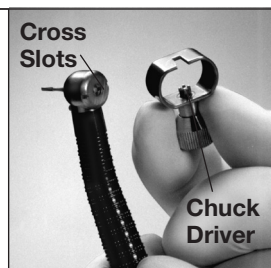
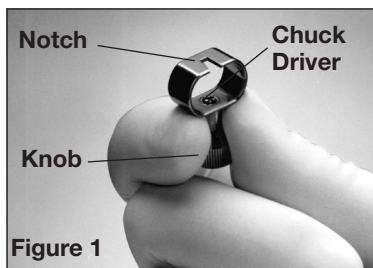
- Adjust the delivery system drive air pressure to obtain 32 psi (2,2 Bar) at handpiece end of hose. Attach a Lares Handpiece Air Pressure Gauge (see item numbers below) to the end of the hose. Air pressure readings must be checked at handpiece end of hose to guard against inaccuracies caused by pressure drops within dental unit and hose.

INSERTING A BUR/DIAMOND INTO THE HANDPIECE: CHANGING BURS

Caution: Never operate this handpiece without a bur/diamond tightened securely in chuck.

Before operating handpiece, it is important to replace the shipping bur with a dental bur or diamond. Until removed, the shipping bur may cause the handpiece to operate at unacceptably high or unpleasant noise levels.

- Squeeze bur changer with thumb and forefinger just ahead of knob to retract chuck driver. **Figure 1.**
- Slip bur changer over head of handpiece and engage notch in bur changer with square chuck nut. **Figure 2.** Turn knob counter clockwise (when viewed from knob end) with slight inward pressure to engage chuck driver with cross slots at rear of chuck.
- Turn knob counter clockwise until body of bur changer rests against neck. Hold body of bur changer against neck as shown. **Figure 3.**
- Turn knob counter clockwise an additional 1/4 to 1 turn maximum to release and remove bur. **Note:** Never turn knob counter clockwise more than one full turn to release bur or chuck nut may be damaged.
- Insert new bur/diamond into handpiece, being sure not to allow taper of any shank burs to enter the handpiece beyond end of chuck nut. **Figure 4.**
- Turn knob clockwise and tighten securely. Tighten the 330E bur changer much more than you are accustomed to with other brand handpieces. You cannot damage the chuck by overtightening. If you tighten insufficiently, you may later perceive a lack of torque due to bur/diamond slippage which can also damage the chuck. **Tighten Securely!**
- Squeeze bur changer with thumb and forefinger to remove from handpiece head. **Figure 1.**
- Pull on bur to verify it is secure in handpiece.



ADJUSTING SPRAY PATTERN

On a properly adjusted delivery system, the spray pattern of the 330E handpiece covers all bur/diamond lengths with a consistent, homogenous air/water mixture.

- Holding handpiece over cuspidor, depress the foot control to test spray pattern. To increase or decrease the amount of water present in the spray, adjust the delivery system water flow control needle valve as needed.

Your handpiece is now ready to operate. Be sure to follow the maintenance instructions that follow.

INITIAL MAINTENANCE

Clean, lubricate and sterilize a new handpiece before its first use. Follow the maintenance and infection control procedure that follows.

OPERATION

The 330E Highspeed should be operated using the same techniques and procedures used with other highspeed handpieces.

IMPORTANT SAFETY PRECAUTIONS

All highspeed handpieces are potentially dangerous if safety precautions are not followed. Be sure to read and observe the following precautions:

- Caution:** Never use the back of the handpiece for tissue retraction. Doing so may result in tissue irritation.
- Never operate handpiece with a bent or damaged bur/diamond engaged in chuck.
- Never insert or remove handpiece from oral cavity before rotation of bur/diamond is completely stopped.
- Never operate handpiece at air pressure in excess of recommended maximum settings.
- Never operate handpiece after turbine cartridge replacement without double checking that head cap is tightened securely.
- Never use burs that do not conform to ISO STD shank diameter standards.
- Never use burs that have corroded, worn or otherwise damaged shanks.
- Do not use this or any other highspeed handpiece for surgical procedures including, but not limited to, the removal of bone, dividing a tooth for extraction, or any other procedure that must be performed in the presence of an open wound. Doing so may result in subcutaneous emphysema and accompanying serious patient health hazards, including permanent disability or death.
For cutting procedures that must be performed in the presence of an open wound, a surgical handpiece specifically indicated for this purpose and designed to exclude the escape of air from the surgical field must be used.
- Do not use this handpiece without heat sterilizing between patients to prevent cross contamination. Cross contamination could result in serious patient illness or even death from infectious organisms such as HIV (the virus that causes AIDS) or hepatitis B.

MAINTENANCE AND INFECTION CONTROL

Failure to follow the maintenance schedule described may void the limited warranty for this product.

The Lares 330E Highspeed Handpiece may be autoclaved.

Clean and lubricate handpiece after each use and before every autoclave cycle or after long periods of storage. Use Lares One Step Handpiece Conditioner or any aerosol dental lubricant intended for highspeed handpieces (no silicone, alcohol or dry lubricant additives).

AUTOCLAVE PROCEDURE

This procedure should be performed after every patient to prevent cross-contamination and to assure long, trouble-free operation.

Clean:

1. Detach handpiece from hose. Clean external surface of handpiece thoroughly to remove saliva, blood, and other organic soil. Scrub handpiece with small brush and detergent under running water. Rinse and dry thoroughly.



CAUTION: NEVER Submerge Components In Any Cleaning Or Disinfecting Solution
DO NOT Use Ultrasonic Cleaners

Lubricate:

2. Apply Lares Handpiece Conditioner.
 - a. Insert the plastic spray nozzle (included with handpiece) into center of can spray tip as far as possible. Figure 5.
 - b. Gently insert the plastic spray nozzle into drive air tube at hose end of handpiece as far as possible. Figure 6.
 Follow specific application instructions detailed on can.

Autoclave:

4. Place handpiece and bur changer in autoclave bag. The use of autoclave bags dramatically reduces handpiece cosmetic damage.
5. Load autoclave bag containing handpiece into autoclave. Be sure to load autoclave bags for maximum penetration of steam or chemical vapor.
6. Cycle the handpiece according to the autoclave manufacturer's instructions. Do not exceed 275°F (135°C). For 12 minutes minimum.

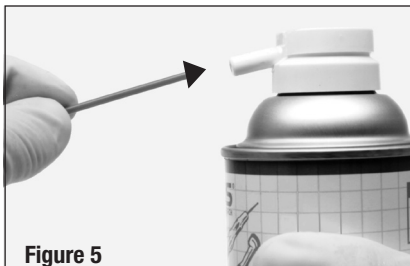


Figure 5

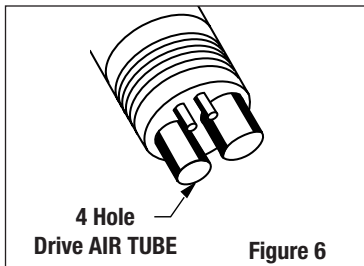


Figure 6



CAUTION:
DO NOT AUTOCLAVE FOR EXTENDED/UNUSUAL PERIODS OF TIME (SUCH AS OVERNIGHT).
DO NOT LEAVE HANDPIECE COMPONENTS IN STERILIZER AFTER CYCLE IS COMPLETED.

7. Immediately remove handpiece from autoclave. Allow to cool sufficiently prior to handling.

DRYERS AND FILTERS (AIR SUPPLY)

Be sure to periodically check and maintain your dental unit air filter and dryer to assure a steady supply of clean, moisture free air and long bearing life.

PROBLEM DIAGNOSIS

The inconvenience of handpiece downtime can often be avoided by following the common sense problem diagnosis and corrective action procedures that follow. If the problem cannot be corrected using these procedures, return the handpiece directly to Lares Research. (Outside U.S.A. return to your authorized Lares distributor.) Do not attempt to perform procedures other than those described.

For additional troubleshooting information go to www.laresdental.com

SYMPTOM	POSSIBLE CAUSE	TEST TO IDENTIFY CAUSE	CORRECTIVE ACTION
EXCESSIVELY LOUD OR SHRILL OPERATING NOISE OR HIGH VIBRATION, CHATTER.	a. Turbine contaminated with debris due to dirty air system.	Return handpiece to factory for internal cleaning and flushing.	Obtain air filter and dryer if not currently in use. If air filter and dryer present, periodically inspect filters and replace or clean if dirty.
BUR CANNOT BE REMOVED OR INSERTED INTO CHUCK.	a. Collapsed chuck due to tightening bur changer without bur in place or due to tightening bur changer with taper of short shank bur inserted beyond end of chuck nut. b. Stripped or rounded chuck nut due to improper bur changer use.	Attempt to insert a second, brand new bur. Inspect chuck nut for rounded corners and edges.	If second bur will not go into chuck, return to factory for repair, or replace turbine cartridge. Return for repair, or replace turbine cartridge.
LOW RPM AND POOR TORQUE.	a. Insufficient air pressure at handpiece. b. Dry bearings due to lack of lubrication.	Check air pressure at end of handpiece tubing using Lares Handpiece Pressure Gauge. —	Adjust pressure to achieve 32 psi (2.20 Bar) at end of handpiece tubing. Lubricate handpiece with Lares Handpiece Conditioner.
INTERMITTENT OR SPITTING SPRAY, INSUFFICIENT SPRAY PATTERN OR POOR WATER ATOMIZATION.	a. Insufficient water flow. b. Clogged water or air ports.	— —	Adjust water flow needle valve to increase water flow. Clean out spray port with ligature wire.

REPAIR SERVICE

For factory repair, send your handpiece directly to Lares Research, Attention: Technical Services Department, shipping prepaid (in U.S.A. only). For repair outside the U.S.A., send your handpiece to your authorized Lares distributor.

REPLACEMENT PARTS AND ACCESSORIES

The following replacement parts and accessories may be ordered directly from Lares Research (in U.S.A. only) or from your authorized Lares distributor outside the U.S.A. All replacement parts are accompanied by full replacement instructions for easy installation in your office.

ACCESSORIES	Item#	REPLACEMENT PARTS	Item#
Handpiece Air Pressure Gauge for 4/5 Hole Handpieces	10012	330E Replacement Turbine Cartridge Kit	10031
Lares Handpiece Conditioner, Can Only	10083	Bur Changer	10006
Nozzle for 330E Handpieces	10054	Replacement 4 Hole Gasket	10009
		Replacement Head Cap	10008

LIMITED WARRANTY

Your Lares handpiece has been precision engineered and critically tested. It is the highest quality product available. Each Lares 330E Highspeed Handpiece is warranted against defects in materials and workmanship for a period of 6 months from date of purchase.

ADDITIONAL CONDITIONS OF WARRANTY

1. Warranty registration is automatic through our computer as of shipping date and warranty registration cards are not necessary (outside U.S.A. warranty registration cards may be required).
2. The handpiece must be operated and maintained in accordance with procedures outlined in the instructions.
3. The handpiece must not be subjected to abuse or neglect.
4. The handpiece must not have been repaired or disassembled by anyone other than Lares Research or your authorized Lares distributor.

Lares Research will repair or replace, at its discretion, without charge any defective parts covered by this warranty provided the handpiece is returned to the factory transportation prepaid. (Outside U.S.A., return to your authorized Lares distributor). Lares Research makes no other warranties, expressed or implied.



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TOLL FREE HOTLINE FOR ORDERING AND TECHNICAL ASSISTANCE:
U.S.A.: 1-888-333-8440

NON-TOLL FREE WORLDWIDE: 1-530-345-1767

FAX: 1-530-345-1870