



# Johnson-Promident

## High Speed Air Turbine Handpiece

### **INSTRUCTIONS FOR OPERATION AND MAINTENANCE:**

In order to always provide the handpiece with clean air, water accumulated in the compressor must be drained out *ONCE A DAY. DAILY LUBRICATION IS ABSOLUTELY ESSENTIAL.*

Operate the handpiece at pressures of 25 to 30 pounds per square inch. The handpiece is engineered to attain speeds of 350,000 RPM at 25 pounds, and 400,000 RPM at 30 pounds.

Use the brush to remove foreign particles. A fine wire is provided for cleaning the water spray hole and to prevent clogging. Particles can be dislodged by blowing air backward from the contra angle head. **NOTE: DO NOT attempt to blow particles from the rear end of the handpiece, as larger particles will be blocked in the water tube.**

### **INSERTION AND REMOVAL OF BURS:**

Pull the knob of the bur wrench back and attach the head of handpiece. When you in the knob, the square tip of the wrench must fit into the square hole within the handpiece head. To loosen bur, rotate wrench on half turn clockwise. **THE HANDPIECE MUST BE OPERATED ONLY WITH A BUR OR BUR BLANK. DO NOT OPERATE EMPTY.**

### **REPLACEMENT OF AIR TURBINE CARTRIDGE:**

1. Place bur in cartridge.
2. Unscrew head cap with head cap button wrench, turning counterclockwise.
3. Push bur on flat surface until cartridge is removed.
4. Clean inside of handpiece head to remove moisture and foreign particles.
5. Insert new cartridge into handpiece head. When replacing the canister style cartridge, the guide projection on the canister must be lined up with concave groove inside handpiece to insure proper fit.
6. Replace head cap into handpiece by screwing clockwise with cap wrench.

**NOTE: WHEN REPLACING HEAD CAP, BE CAREFUL TO ALIGN THREADS CORRECTLY. THESE THREADS ARE VERY FINE AND CAN BE EASILY STRIPPED.**

### **STERILIZATION PROCEDURES:**

*(Autoclave and Chemiclave Only)*

#### **Clean External Surface**

Remove bur from handpiece and scrub with a toothbrush or 2" x 2" gauze using warm tap water. **DO NOT IMMERSE HANDPIECE.**

#### **Dry**

Thoroughly dry handpiece using gauze, paper towel or air syringe.

#### **Clean/Lubricate Internal Surface**

Using Spray-1® daily cleaner/lubricant or Midwest Spray-A-Day+® Spray handpiece in drive air hole and in chuck.

#### **Expel Cleaner/Lubricant**

Reinsert bur into handpiece head, connect handpiece to tubing and run for 5 seconds to thoroughly expel debris and excess lubricant.

#### **Clean Fiberoptic Bundle**

Using a cotton swab with isopropyl alcohol, wipe the surface on both ends of handpiece.

#### **Bag and Cycle in Autoclave**

Place handpiece into autoclave bag or pouch. Cycle as per autoclave/chemiclave manufacturers' instructions. **DO NOT EXCEED 275° F (135° C).**

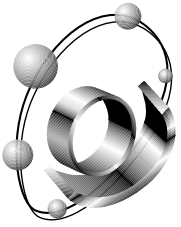
#### **Cool Down and Lubricate**

Allow handpiece to return to room temperature. Lubricate handpiece as per instructions listed above. Expel excess lubricant as per previous instructions.



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## **Air Turbine Handpiece**

### **Operation and Maintenance Tips**

#### **✓ DO**

- ✓ Use warm tap water to scrub the exterior of handpiece.**
- ✓ Expel excess lubricant from handpiece by running it for 5 seconds after cleaning and lubricating.**
- ✓ Use separate cans of lubricant before and after sterilization to prevent contamination.**
- ✓ Clean both ends of fiberoptic bundle with a cotton swab dipped in isopropyl alcohol.**
- ✓ Use autoclave bags and pouches with indicators to protect handpiece from damage and demonstrate to patients your asepsis awareness.**
- ✓ Allow handpiece to cool down to room temperature before lubricating.**

#### **⊘ DON'T**

- ⊘ DON'T immerse handpiece in water or chemical disinfectants/sterilants.**
- ⊘ DON'T use solutions containing phenol, acid or chlorine.**
- ⊘ DON'T sterilize handpiece with bur inserted.**
- ⊘ DON'T exceed 275° F (135° C) in autoclave or chemiclave.**
- ⊘ DON'T dry heat or heat transfer sterilize.**
- ⊘ DON'T operate handpiece without bur inserted in chuck.**