

# MICROPROPHY™ II

**AIR POLISHER**



**DANVILLE MATERIALS**

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## INSTRUCTIONS FOR USE

### SAFETY:

- **Never spray into culcus due to risk of embolism.**
- **Protect eyes from spray.**
- **Do not use sodium bicarbonate on sodium sensitive patients.**
- **Examine threads on head and reservoir for signs of wear. Excessive wear could result in failure of head/reservoir causing injury.**

### HOOK-UP

The MicroProphy II operates off compressed air at 40 to 100 psi (3 to 6.5 Bars). Attach the hand piece connector to the "Outlet" port (arrow points away from head) of the MicroProphy II head. **Note:** Do not connect to air without the hand piece line connected. The open port for the hand piece line will spray abrasive. An air line is provided that will connect the MicroProphy II to the air source. Screw the threaded end of the line into the "Inlet" port (arrow points into head) of the MicroProphy II head. A male quick disconnect fitting is provided on the other end.

#### Quick Disconnect

The MicroProphy will connect to standard 1/4" dental quick disconnect. The same connector is normally used for the MicroEtcher or PrepStart. Quick disconnect kits are available for easy installation (P/N 44010).

#### Connection to Hand piece Line

Connection to hand piece lines is easy, however, available pressure is often lower than desired. It will be necessary to depress the foot pedal during use. Adaptors are available to connect to 4 Hole, 2 Hole and Kavo style.

#### Optional Regulator

Adjustable pressure regulator connects in line to a 1/4 " disconnect.

#### Operating Pressures:

40 to 60 psi (3-4 Bars) Light cleaning  
60 to 80 psi (4-5.5 Bars) Rapid cleaning  
80 to 100 psi (5.5-6.5 Bars) Most aggressive

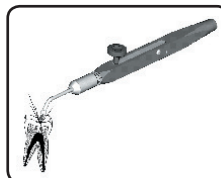
**Note:** Higher pressures will cause more splatter

### MICROPROPHY USE:

1. Fill MicroProphy II per instructions above.
2. Place MicroProphy II upright, in base. **Note:** Shake well prior to use if used wet.
3. Connect to air
4. Place prophy sleeve over hand piece and pierce tip through.
5. Hand piece slot is provided in base for storage when not in use.
6. Disconnect from air after use and depressurize reservoir.

### SUGGESTED TECHNIQUES OF USE:

- Hold tip 4 to 10 mm from surface
- Angling the tip will direct the rebounding spray.
- Hold suction adjacent to spray.
- Move tip in slow even passes.
- **Never spray into culcus.** Spray away from gingiva.
- Dentin and cementum will abrade.
- Use of MicroProphy II prophy cups will reduce splatter. **Note:** Hold prophy cup against tooth surface.



### APPLICATIONS FOR USE:

Stain removal	Pit & fissure preparations.
Cleaning around orthodontic fixtures.	Cleaning darkened grooves to detect lesions.

### CLEANING & DISINFECTION:

Cleaning the MicroProphy II is essential. Autoclave tip and change hand piece prophy sleeve between patients. If contaminated, the hand piece, body and base can be placed in cold sterilizing solution.

**If used wet,** the hand piece and reservoir must be cleaned daily. Failure to clean, will allow wet bicarbonate to dry and harden, resulting in clogging.

#### Cleaning Procedure:

1. Depressurize, remove reservoir and wash.
2. Fill reservoir with water, screw on head and connect to air. Depress the finger button to purge clean water through the hand piece.

**If used dry,** the reservoir should be emptied daily after use but need not be cleaned unless contaminated.

### RESERVOIR FILL & REMOVAL

**Screw reservoir onto the head** until it snugly engages the o-ring. It is not necessary to use excessive force to tighten, a gap between the head and reservoir should not be visible. Inspect threads and o-ring periodically for wear. Occasionally it may be necessary to lubricate the o-ring. (Fig. 1)

**Note:** Depressurize before removing reservoir.

Disconnect from air & bleed remaining pressure through hand piece.

The MicroProphy II may be used dry or with water:

**Wet spray** creates a superior polish, however wet abrasive tends to stick to clothing and daily clean up of the MicroProphy II is essential.

**Dry spray** is more aggressive, less messy and clean up is minimal, however airborne dust is created and leaves a dull surface. Surface will remineralize to a gloss in several days.

#### Abrasive Fill Wet

Use only MicroProphy B+ sodium bicarbonate powder. B+ powder contains a foaming agent that is essential for wet operation. Fill powder to first score line. Fill with water to second score line

#### Abrasive Fill Dry

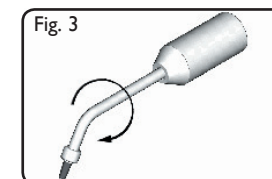
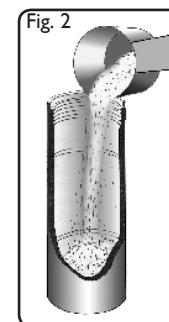
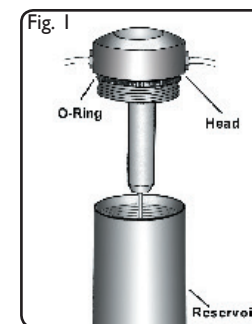
Use either MicroProphy B or B+ powder. Fill to the first score line. (Fig. 2)

#### Handpiece & Tips

The handpiece is finger button controlled. Tips screw onto the threaded end of the hand piece. Be sure to engage at least 3 full turns to prevent tips from disengaging from handpiece. nozzle can be rotated 360 deg. (Fig. 3)

#### Splatter Shield Prophy Cups

Special prophy cups are designed to fit on to the tip to reduce splatter. Cup skirt is held in contact with tooth. Replacement cups are available: reorder # 23530



### TROUBLE SHOOTING

**Clogged Nozzle,** remove nozzle and blow air backwards through nozzle. If abrasive has hardened, soak in hot water/ultrasonic cleaner to dissolve.

#### Weak or No Abrasive Flow ... with strong air flow through tip.

- Check reservoir for abrasive fill
- Wet use: MicroProphy B+ must be used. Other powders will not function.

#### Air Leaks

**Jar:** Check o-rings on head and inlet/outlet fittings.

**Hand piece:** Check o-rings on nozzle mount. If leak is internal, see: Hand piece disassembly. Note: abrasives will wear tubing at the pinch point after prolonged use resulting in a leak.

#### Restricted or No Air flow

- Air flow through hand piece with nozzle removed: See Clogged Nozzle.
- Restriction of air flow through hand piece: Disconnect from air source, depressurize reservoir, remove reservoir and abrasive unscrew hand piece line. Reconnect to air. Air flow through body indicates obstruction in hand piece. See Hand piece Disassembly.
- Restriction of air flow through body: Check air source & See Head Disassembly

#### Head Disassembly:

• Depressurize reservoir and unscrew Head from reservoir. Unscrew black check valve assembly, spring, ball and o-ring and reassemble. (Fig. 4)

#### Hand piece Disassembly:

- If hand piece is totally clogged, soaking and flushing will not be effective. Disassembly will be required. (Fig. 5)
- Disassemble to Clean:
  1. Remove screw with hex wrench provided. Lift out lever.
  2. Unscrew nozzle mount using wrench provided. Pull mount out with tubing attached.
  3. Clean out clog by feeling for a stiffened section and working loose with fingers.
  4. Blow out with compressed air.
  5. Reverse procedure to reassemble.
- Replacement of tubing:
  1. Disassemble and cut tubing off nozzle mount. Pull tubing through hand piece body. Remove tubing from connector.
  2. Slide new tubing, Order# 45016, through the body. Soften tube ends in boiling water and slide over barbs on connectors. Reassemble.

