

Handpiece Maintenance Guide : HighSpeed



For use with all Smile Stream Solutions air driven handpieces and Speed Series™.

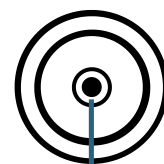
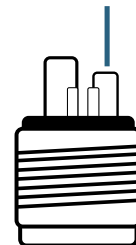


QuickConnect Coupler

After each use:

1. Remove bur from chuck.
2. Remove the handpiece from either the hose connection or QuickConnect coupler.
3. Manually scrub exterior of handpiece with a soft bristle brush under running tap water.
4. **4-Hole Attachment** - While holding can of lubricating cleaner aerosol spray upright, insert nozzle fully into the air intake valve. The air intake valve is the shorter of the two big tubes at the back of the handpiece. Spray a short 1-second burst.
5. **QuickConnect Attachment** - While holding can of lubricating cleaner aerosol spray upright, insert nozzle fully into the air intake valve. The air intake valve is the center hole at the back of the handpiece. Spray a short 1-second burst.
6. Run handpiece with a bur attached for a minimum of 30 seconds on the hose until the handpiece reaches normal speed and all excess cleaner lube has been expelled. Wipe off any excess cleaner lubricant on the outside of handpiece with a dry gauze pad or paper towel.
7. Insert handpiece into sterilization bag and load into autoclave. Smile Stream recommends using sterilization bags with at least one paper side. Handpieces should be processed in the autoclave for 15 minutes at sterilization temperature of 135°C (275°F). For cassette chamber saturated steam devices, handpieces should be processed unbagged for 3.5 minutes at sterilization temperature of 135°C (275°F).

Air Intake Valve



Air Intake Valve

- DO NOT** submerge a handpiece in water.
- DO NOT** place handpiece in disinfectant solution.
- DO NOT** clean a handpiece in ultrasonic devices.
- DO NOT** use dry sterilization.



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For use with all Smile Stream Solutions air driven handpieces with QuickConnect couplers.



QuickConnect Coupler

Installation:

Screw QuickConnect coupler onto the high speed hose line. Tighten securely by hand to prevent leaks. Coupler is to remain installed on hose.

Connecting and Disconnecting Handpiece from QuickConnect

1. Remove any external debris from coupler before inserting into handpiece.
2. Insert handpiece onto coupler until it "clicks" into place.
3. Check that there is a secure connection by slightly tugging on handpiece.
4. To disconnect, slide back the collar on the coupler while pulling on the handpiece at the same time.
5. Coupler is to remain installed on the hose.

DO NOT sterilize QuickConnect coupler.

DO NOT slide back coupler locking collar during operation.

Doing so may result in handpiece projecting from coupler.

Warranty

Smile Stream Solutions guarantees all handpieces to be free of defects in materials and workmanship for a period of twelve (12) months from date of purchase. Speed Series handpieces are guaranteed to be free of defects in materials and workmanship for a period of twenty-four (24) months from date of purchase - provided that the handpiece has been operated and maintained as prescribed in the handpiece instructions (at the discretion of Smile Stream Solutions) and has not been subjected to apparent misuse, abuse or accident. All questionable, defective, or loose parts must be returned to Smile Stream Solutions, with proof of purchase.

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Main Components



Contra Angle



Prophy Straight



Motor

Operating Parameters:

- With an air pressure of 245 Kpa (35.5 psi), the speed of air motor is 18000 RPM, the air consumption is 1.4 cfm.
- With an air pressure of 294 Kpa (42.6 psi), the speed of air motor is 20000 RPM, the air consumption is 1.8 cfm.
- With an air pressure of 392 Kpa (56.8 psi), the speed of air motor is 22000 RPM, the air consumption is 2.5 cfm.

Changing from Forward to Reverse

- **FORWARD:** turn the rotating ring to “F” (Fig. 2).
- **REVERSE:** turn the rotating ring to “R” (Fig. 3).
- **STOP:** turn the rotating ring between F and R (Fig. 4).

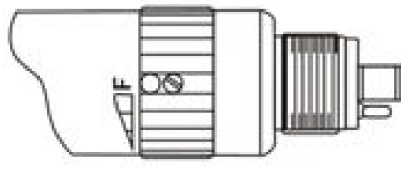


Fig. 2

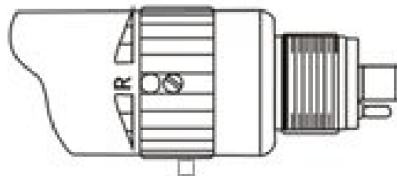


Fig. 3

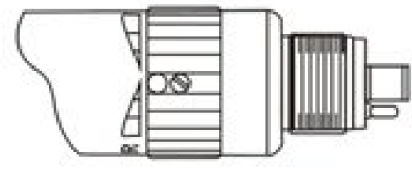


Fig. 4

Loading and Unloading Burs

Straight Handpiece:

To load, turn the ring to the left until it clicks. Insert the bur. Turn the ring to the right until it clicks, locking the bur in place. To unload, turn the ring to the left until it clicks. Remove the bur.

Contra-Angle Handpiece:

Slide the clip to left and insert the bur. Slide the clip to the right to lock the bur in place. Repeat to remove the bur.

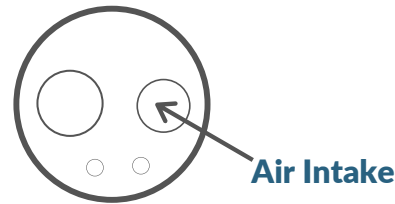
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Clean and Lubricate

Air Motor:

Holding the lubricant spray upright, spray lubricant for one second into the air intake on the bottom of the motor. Run the motor for 30 seconds. Wipe any excess oil from the handpiece. **LUBRICATE AND CLEAN AFTER EACH USE.**



Straight Handpiece:

Holding the lubricant spray upright, spray lubricant for one second into the bur chuck hole. Run the handpiece for 30 seconds. Wipe any excess oil from the handpiece. **LUBRICATE AND CLEAN AFTER EACH USE.**

Contra-Angle Handpiece:

Slide the clip to the left. Holding the lubricant spray upright, spray lubricant for one second into the bur chuck hole. Run the handpiece for 30 seconds. Wipe any excess oil from the handpiece. **LUBRICATE AND CLEAN AFTER EACH USE.**

Sterilizing

After operating, use a soft brush to remove any debris from the surface. Wipe with an alcohol cloth and lubricate. Place in an OPEN sterilization bag and load into autoclave at a maximum temperature of 135°C (275 °F)

Changing Cartridges

1. Unscrew the clip and remove the connecting gear
2. Unscrew the cap using the wrench
3. Remove the cartridge and clean the head with oil.
4. Put the raised part of new cartridge at the notch of handpiece pushing it stops

DO NOT use damaged or bent burs.

KEEP all parts clean to avoid malfunction.

DO NOT use motor with a loose clip or when burs are not inserted.

DO NOT store burs in the handpiece when not in use.