

**NSK**

# *Maintenance Guide*

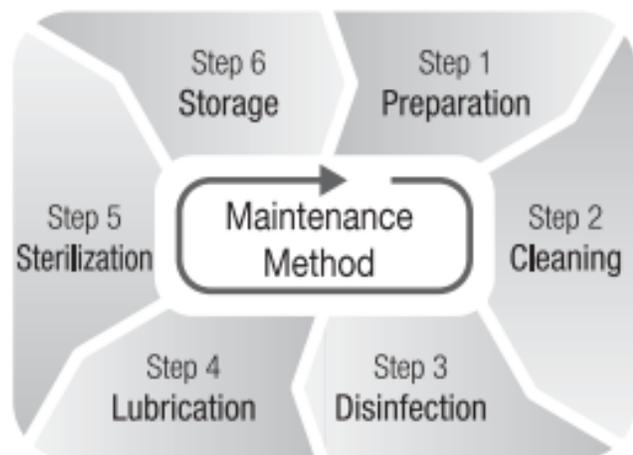
*for Air Turbine, Contra Angle  
& Straight Handpiece*

OM-Z0135E

Please read this Operation Manual carefully  
before use, and file for future reference.



Powerful Partners®



This symbol on your NSK product means that the product can be cleaned and disinfected with a Thermo-disinfector.



This symbol on your NSK product means that the product can be autoclavable up to Max. 135°C.

## 1. Preparation

Remove Contra Angle/Turbine from the motor/coupling and detach the bur from the chuck.

## 2. Cleaning

**Manual** : Clean the external surface of handpiece with running water (<38°C, demineralised water recommended).

**Automated** : NSK handpieces with this symbol are the thermo-disinfector-ready and may be washed and disinfected by using a thermo-disinfector. When using a Thermo-disinfector, be sure to follow its manufacturer's instructions.



### 3. Disinfection

**Manual :** Wipe the external surface of handpiece carefully with cleaning or disinfectant solution.

**Automated:**



### 4. Lubrication

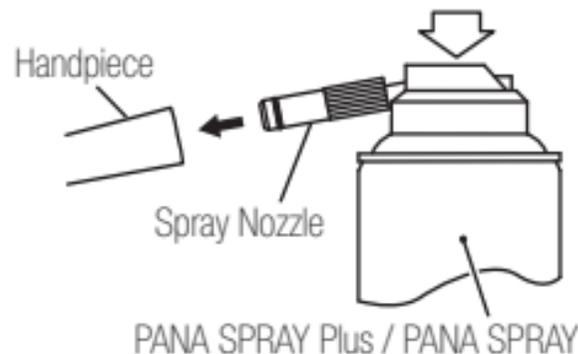
Lubricate handpiece by using NSK PANA SPRAY Plus / PANA SPRAY. To prevent mist spray from escaping into the environment, use absorbent cloth. Expel excess lubrication.

**Manual :**

- 1) Push or screw nozzle. Shake the spray can 3-4 times.
- 2) Insert the spray nozzle in the rear of the handpiece and spray for approximately 2-3 seconds until the oil comes out of the handpiece head / nose.

**Automated :**

Clean and lubricate handpieces with NSK Care3 Plus. Be sure to use a right adaptor for each handpiece. Refer to the Care3 Plus Operation Manual for detail.





## CAUTION

- Be sure to hold the handpiece firmly to prevent the handpiece from slipping out by the spray pressure when lubricating.
- Keep the NSK PANA SPRAY Plus / PANA SPRAY can upright.
- Use of lubricants other than NSK's PANA SPRAY Plus / PANA SPRAY can cause excessive heat generation and possible handpiece damage.

## 5. Sterilization

Autoclave sterilization is recommended.

Sterilization is required first time you use and after each patient as noted below.

### ■ Autoclave Procedure :

- 1) Insert into an autoclave pouch. Seal the pouch.
- 2) Autoclavable up to a max. 135°C.  
ex.) Autoclave for 20 min. at 121°C, or 15 min. at 132°C.

\*Sterilization at 121°C for more than 15 minutes is recommended by EN13060 or EN ISO17665-1.



## CAUTION of Sterilization

- Always place the handpiece in the center or upper shelf of the chamber, as the local temperature at the bottom of chamber could rise beyond the set value.
- Do not autoclave the handpiece even when it is bagged, together with other instruments, from which chemicals are not sufficiently cleaned. This is to avoid discoloration and/or damage the plating of the handpiece/motor.
- Do not heat or cool the handpiece quickly. Rapid change in temperature could break the glass rod and give abnormal strain to other metals. (Optic handpiece/motor)
- Do not wash, soak, or wipe off the handpiece with/in the oxidation potential solution (strong acid, superacid solution) or sterilized solution.

## 6. Storage

Immediately after a sterilization cycle, remove handpiece from the autoclave. Keep them in a dust-free sterilized storage or bring them to a treatment room for use.

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Specifications are subject to change without notice.

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