

OPERATION MANUAL

**NSK**

CE 0197

Contra Angle Handpiece Latch Bur

**NAC**

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

**MADE IN JAPAN**

OM-C0054E 001



Powerful Partners®

This operation manual for : NAC-U, NAC-SC, NAC-E, NAC-E4R,  
NAC-E10R, NAC-E16R, NAC-E64R

## Caution

- When operating the handpiece always consider the safety of the patient.
- The handpiece is designed only for dental use.
- Should the handpiece function abnormally, cease operation immediately and return the handpiece to the dealer for repair.
- Do not attempt to disassemble the handpiece nor tamper with the mechanism.
- Do not drop the handpiece.
- Do not exceed a speed of  $25,000\text{min}^{-1}$ (rpm) at the head.
- Do not disconnect the handpiece until the drive motor has completely stopped.
- Do not use eccentric, worn or damaged burs.
- Before use always confirm that the bur is correctly seated and locked into place.
- Do not exceed the bur manufacturer's recommended speed.



## 1. Mounting of Bur

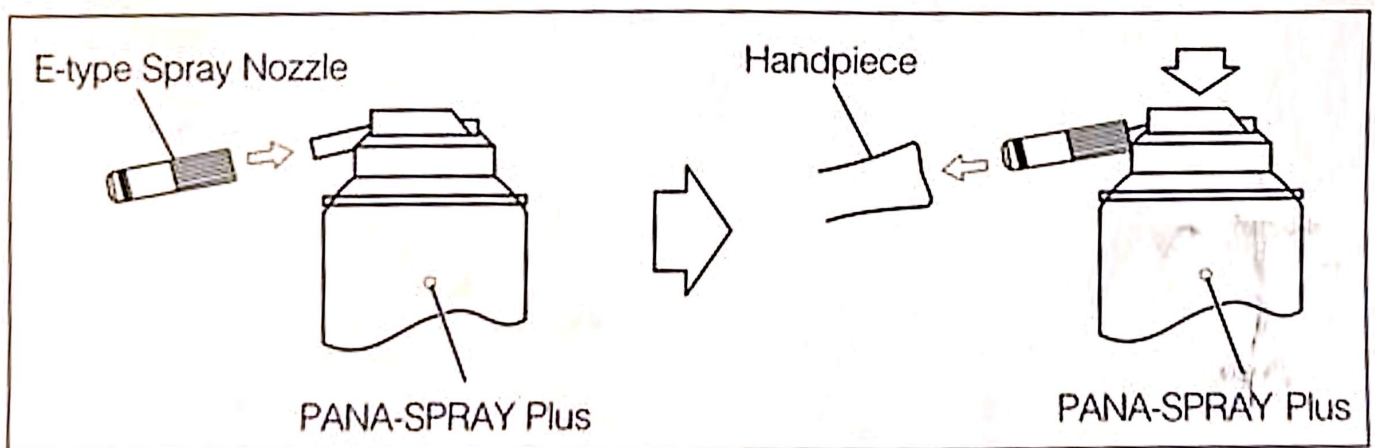
Swing open the latch plate. Insert the latch bur in place, making sure that the head of the bur engages with the "D" hole in the bur tube. Return the latch plate to its original position. The latch plate engages with the groove in the bur.

## 2. Lubrication

(1) PANA-SPRAY Plus (NAC - E, NAC - E4R, NAC - E10R, NAC - E16R, NAC - E64R)

Supply PANA-SPRAY Plus after each use and/or before autoclaving.

- ① Push E-type spray nozzle attachment over the PANA-SPRAY Plus nozzle until it firmly seats.
- ② Shake the can 3-4 times to well mix lubricant and propellant.
- ③ Insert the E-type spray nozzle in the rear of the handpiece and spray for approximately 2-3 seconds until the oil comes out of the handpiece head or nose. (Fig. 1)



E-Type Spray Nozzle : NAC -E, NAC -E4R, NAC- E10R,  
(Z019-090) NAC- E16R, NAC- E64R)

Fig.1

## ⚠ Caution

- Be sure to hold the handpiece firmly to prevent the handpiece from slipping out by the spray pressure when lubricating.
- Supply lubricant until it comes out of the handpiece nose (for approx. 2 seconds).
- Keep the PANA-SPRAY Plus can upright.

### (2) Lubricant oil

Swing open the latch plate. Loosen the union nut on the head. Remove the head from the sheath. Remove the drive shaft assembly from the head or sheath. Supply lubricant at the arrows.(Fig. 2)

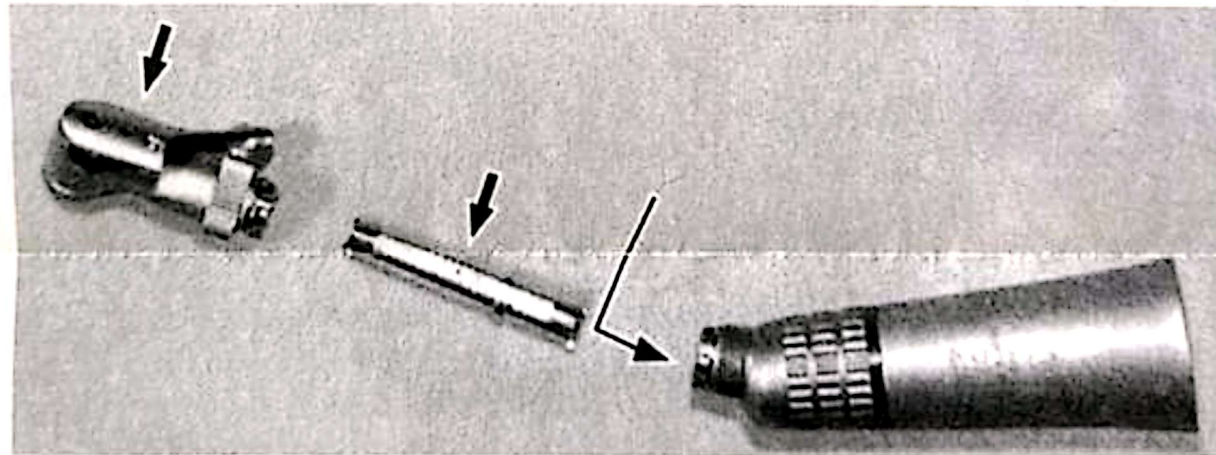


Fig.2



### 3. Sterilization

Steam autoclave is recommended.

Sterilization required after each patient as noted below.

Autoclave Procedure:

- ① Scrub dirt and debris from the handpiece, and wipe clean with alcohol-immersed cotton swab or cloth. Do not use a wire brush.
  - ② Lubricate with PANA-SPRAY Plus or Lubricant oil. Refer to 2. Lubrication.
  - ③ Insert into an autoclave pouch. Seal the pouch.
  - ④ Autoclavable up to a max. 135°C.  
ex.) Autoclave for 20 min. at 121°C or 15 min. at 132°C.
  - ⑤ Keep the handpiece in the autoclave pouch to keep it clean until you use it.
- \* Sterilization at 121°C for more than 15 minutes is recommended by EN13060 or EN554.
  - \* Performing sterilization according to our instruction has minimal effect on the instruments. Life span is generally determined by wear and damage due to use.

#### Caution

- In case the sterilizer chamber temperature could exceed 135°C during the dry cycle, skip the dry cycle.
- 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.

## 4. Cartridge Replacement

- ① Loosen the union nut and remove the head from the sheath.
- ② Pull out the drive gear assembly from the head. (Fig. 3)

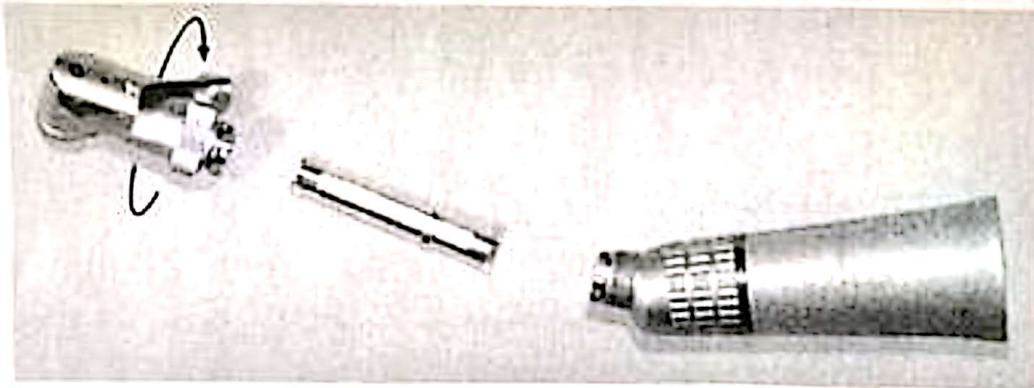


Fig. 3

- ③ Place cap wrench on the head cap and turn counter-clockwise. Unscrew and separate the cap. (Fig. 4).

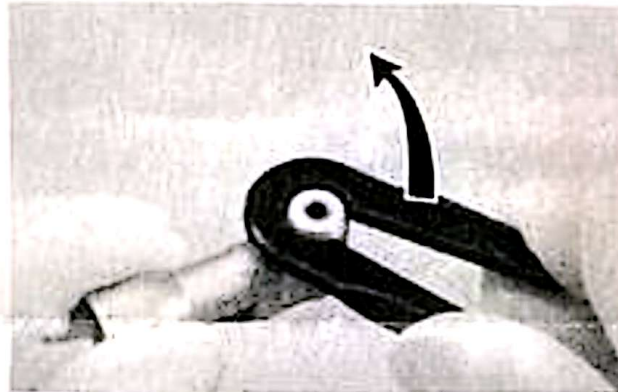


Fig. 4

- ④ Swing open the latch plate. Insert a bur blank or round rod into a hole from the head end, and push out the cartridge.
- ⑤ Insert the new cartridge, with its pin aligned in the slot of the head. (Fig. 5)

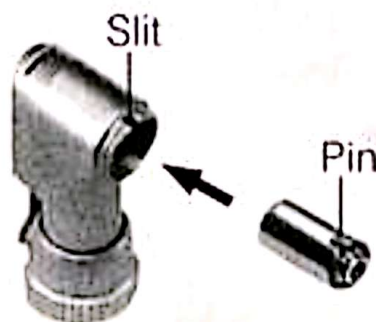


Fig. 5

- ⑥ Reassemble in the reverse order.