

# NSK Prophy AR Series

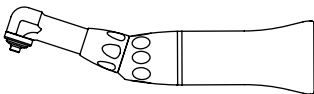
OPERATION MANUAL

OM-C0357E

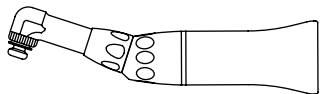
CE The EU directive 93/42/EEC was applied in the design and production of this medical device.

Please read this manual before operating the prophy head.

This operation manual is for : AR-EC (S) / ER4 (S) / ER10 (S) / ER16 (S) / ER64 (S)  
 EC (K) / ER4 (K) / ER10 (K) / ER16 (K) / ER64 (K)  
 ECM (S) / ER4M (S) / ER10M (S) / ER16M (S) / ER64M (S)  
 ECM (K) / ER4M (K) / ER10M (K) / ER16M (K) / ER64M (K)



Screw Type



Snap-On Type

## CAUTION

- When operating the prophy handpiece always consider the safety of the patient.
- The prophy handpiece is designed only for dental use.
- Should the prophy handpiece function abnormally, stop operation immediately and return the handpiece to the dealer for repair.
- Do not attempt to disassemble the prophy handpiece nor tamper with the mechanism.
- Do not drop the prophy handpiece.
- Before use, always confirm that the brush or rubber cap is correctly seated into place.
- The optimum speed for prophy work is less than 3,000 min<sup>-1</sup> (rpm).  
 High speed results in the surface being polished heats up, on large amount of the paste spatters.
- When used in the patient's mouth, do not attempt run in the reverse direction.
- Caps and brushes could unscrew and fly away from the head.
- Do not wipe with, or clean or immerse in, high acid water or sterilizing solutions.

## 1. Features

- Autoclavable up to 135°C.
- Unique dust sealing mechanism prevents the paste and debris from entering the head.
- Special lubricating mechanism assures fast, simple, direct and efficient lubrication for all points where lubricant is required.

## 2. Lubrication

Supply PANA SPRAY Plus and/or Care3 Plus after each use and/or before autoclaving.

### (1) PANA SPRY Plus

- ① Remove the paste attached to a handpiece by spinning it forward and backward repeatedly while immersing the handpiece with a brush or a rubber cap in clean water.
- ② Push E-type spray nozzle attachment over the PANA SPRAY Plus nozzle until it firmly seats.
- ③ Shake the can 3-4 times to well mix lubricant and propellant.
- ④ Insert the E-type spray nozzle in the rear of the handpiece and spray for approximately 2-3 seconds. Be sure that air and oil come out between the brush and the rubber cap at the tip of the handpiece.

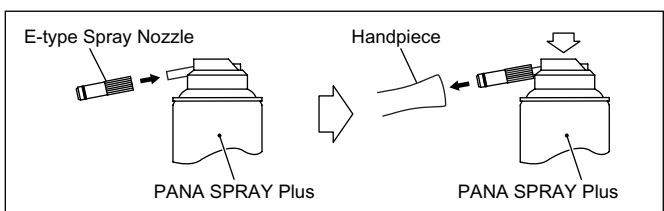


Fig.1

## 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

Loosen the union nut on the head. Remove the head from the sheath. Remove the drive shaft assembly from the head.

Supply lubricant at the arrows. (Fig.2)

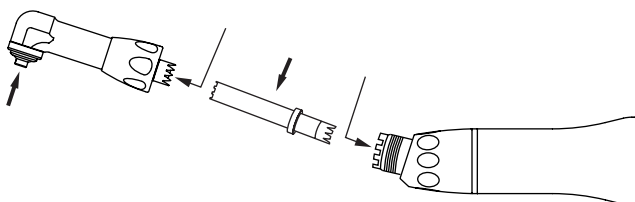


Fig.2

## (3) Care3 Plus

NSK Care3 Plus automatic handpiece lubrication system. After cleaning the handpiece simply connect the handpiece to the correct adaptor and activate the Care3 System per the Care3 System instructions.

## 3. Cleaning and Sterilization



The products listed below are washable with Thermo Disinfectant.  
AR-ECM (K/S) / ER4M (K/S) / ER10M (K/S) / ER16M (K/S)  
ER64M (K/S)

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. 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.
- Do not wipe with, or clean or immerse in, high acid water or sterilizing solutions.

## 4. End Cap Wrench

Mount the wrench over the serrated part of the end cap. Turn in the direction of the arrow in Fig.3, and the end cap comes out with the stem. The end cap and the stem are in one piece for Snap-On Type.

To reassemble the end cap, screw in by fingers, and make a final turn securely with the wrench.

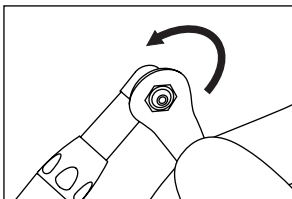


Fig.3

※ Specifications may be changed without notice.

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