

## EX-203C



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

**MADE IN JAPAN**

OM-M0093E 001



## ⚠ CAUTION

- When operating the airmotor always consider the safety of the patient.
- For professional use only. Do not make wrong use of the handpiece.
- Should the airmotor function abnormally, cease operation immediately and return the airmotor to the dealer for repair.
- Do not disconnect the handpiece until the airmotor has completely stopped.
- Do not disassemble unless otherwise instructed nor alter the airmotor.
- Do not drop nor hit airmotor against hard object.
- Always check for vibration, heating, noise and sluggish operation before use in the patient's mouth. If such abnormality is found, stop use and call the dealer.
- Keep clean and dry supply air. Moisture and debris in supply air may cause the airmotor to malfunction.

## 1. Features

- Various E-type (ISO-3964 Compatible) attachments are adaptable.
- It is repeatedly autoclavable up to 135°C.
- Specially-coated cylinder provides outstanding durability.
- Selection of Forward or Reverse Rotation, or Stop is achieved at the motor.

## 2. Specifications

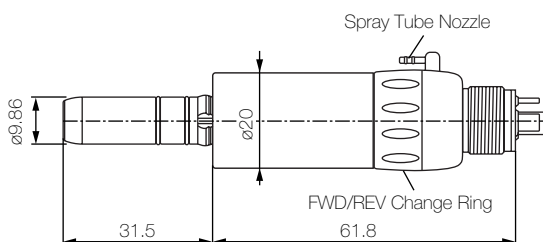


Fig. 1

Weight ..... 88g

※Dimensions are Midwest 4-hole type.

Speed and Air Consumption Rate by Drive Air pressure.

Drive Air (MPa)	Speed (min <sup>-1</sup> )	Air Consumption (NL/min)
0.25	22,000	42
0.3	25,000	51
0.4	27,000	72

※Speed may vary slightly depending on the back-end configuration the direction of rotation, type of hose used.

## 3. Mounting of Attachment

### (1) Mounting of Attachment

Insert the E-type attachment in the motor insert.

### (2) Removing the Attachment

Pull out the attachment from the motor.

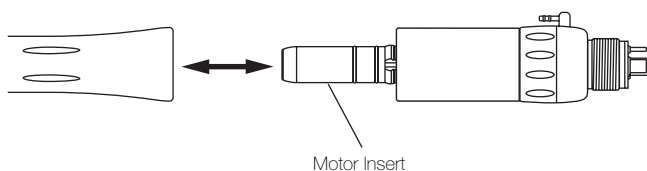


Fig. 2

## 4. Forward/Reverse Rotation

- (1) Forward Rotation : Turn the FWD/REV Change Ring to “F” as shown in Fig. 3.
- (2) Reverse Rotation : Turn the FWD/REV Change Ring to “R” as shown in Fig. 4.
- (3) When the FWD/REV Change Ring is positioned at the middle of “F” and “R”, the drive air is interrupted and the motor does not rotate. (Fig. 5)

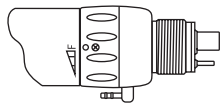


Fig. 3

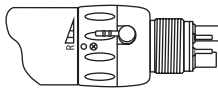


Fig. 4

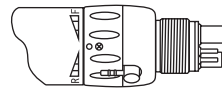


Fig. 5

## 5. Water and Chip Air Supply to the Attachment

When water, chip air, or spray is required at the attachment, connect the spray tube attachment to the spray tube nozzle of the motor. Trim the tube to the desired length. (Fig. 6)

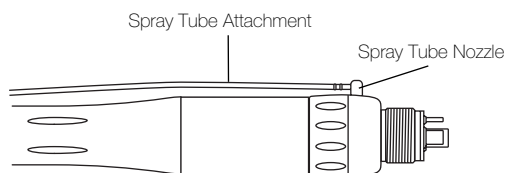


Fig. 6

## 6. Lubrication

Disconnect the motor from the handpiece hose, and supply a few drops of Air Turbine Oil (Cat.No.Z016-112) or PANA-SPRAY Plus for a few seconds into the drive air tube at the back end of the motor as shown in Fig. 7.

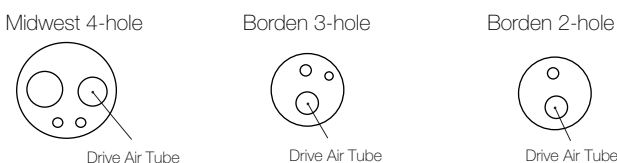


Fig. 7

## 7. Sterilization

Sterilization by autoclaving is recommended.

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

### ■ Autoclaving Procedure :

- ① Wipe off dirt with alcohol-soaked cloth.
- ② Lubricate the motor. Use PANA-SPRAY Plus or Air Turbine Oil.  
When Air Turbine Oil is used, be sure to operate the motor for a few seconds before autoclaving.
- ③ Insert in a sterilizing pouch and seal it.
- ④ Autoclavable up to max. 135°C.  
ex.) Autoclave for 20 min. at 121°C, or 15 min. at 132°C.
- ⑤ Keep the motor 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.

### ⚠ CAUTION

- Do not autoclave the motor, even when it is bagged, together with other instruments, from which chemicals are not sufficiently cleaned. This is to avoid discoloration and/or damage to the plating of the motor.
- Do not wash, soak, or wipe off the handpiece with/in the oxidation potential solution (strong acid, superacid solution) or sterilized solution.

**NAKANISHI INC.**   
www.nsk-inc.com

700 Shimohinata Kanuma-shi  
Tochigi 322-8666,  
Japan

**NSK Dental Spain SA**  
www.nsk-spain.es

C/ Mòdena, 43 El Soho- Euròpolis  
28232 Las Rozas, Madrid,  
Spain

**NSK Europe GmbH**   
www.nsk-europe.de

Elly-Beinhorn-Strasse 8  
65760 Eschborn,  
Germany

**NSK Oceania Pty Ltd**  
www.nsk-inc.com

Unit 22, 198-222 Young St.  
Waterloo, Sydney,  
NSW 2017, Australia

**NSK France SAS**  
www.nsk.fr

19 avenue de Villiers  
75017 Paris,  
France

**NSK America Corp**  
www.nsk-inc.com

700 Cooper Court  
Schaumburg, IL 60173,  
USA

**NSK United Kingdom Ltd**  
www.nsk-uk.com

Office 5, Gateway1000,  
Arlington Business Park, Whittle Way,  
Stevenage, SG1 2FP, UK

**NSK Middle East**  
www.nsk-inc.com

Room 6EA-701, 7th Floor, East Wing No.6  
Dubai Airport Free Zone,  
PO Box 54316 Dubai, UAE