

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

Thank you for purchasing the Ti205L Airmotor.
Please read this Operation Manual carefully and file for future reference.



Caution

- Place the most priority of the patient's safety.
- For professional use only. Do not make wrong use of the handpiece.
- Do not disassemble, nor alter the handpiece.
- Check the vibration, noise and overheating outside the patient's oral cavity before use. If any abnormalities are found, stop using immediately and contact your dealer.
- If any abnormalities are found in use, stop using immediately and contact your dealer.
- Do not drop, hit, or subject to excessive shock.
- Remove the airmotor after the air supply is stopped completely.
- Keep clean and dry supply air. Moisture and debris in supply air may cause the airmotor to malfunction.
- Do not wash, soak, or wipe off the handpiece with/in the oxidation potential solution (strong acid, superacid solution) or sterilized solution.

1. Features

- Various E-type (ISO-3964 Compatible) internal coolant attachments are adaptable.
- Specially-coated cylinder provides outstanding durability.
- Selection of forward or reverse rotation, or stop is achieved at the airmotor.
- The NON-RETRACTION VALVE, incorporated in the rear joint, prevents suction of oral fluids in a patient's mouth into the water line of the handpiece at the spray water outlet port. (PAT.)
- It is repeatedly autoclavable up to 135°C.

2. Specifications

Model	Ti205L
Rotation Speed	18,000-22,000min ⁻¹ (rpm)*
Drive Air Pressure	0.25MPa(2.5kgf/cm ²)
Air Consumption	48-55 L/min
Lighting	Yes
Weight	114g

*Speed may slightly vary depending on the back-end configuration and type of hose used.

3. Connection / Disconnecting the Motor Cord



Caution

Ensure that the air supply has completely stopped before handling the airmotor.

(1) Connection

Align the pipe of the airmotor and the pipe hole of the motor cord, and push the airmotor onto the motor cord. Fasten the motor cord nut securely, holding the motor nut by spanner.

(2) Disconnecting

To disconnect the airmotor from the motor cord, unscrew and detach the motor cord nut, and gently pull out the airmotor, holding the motor nut by spanner.

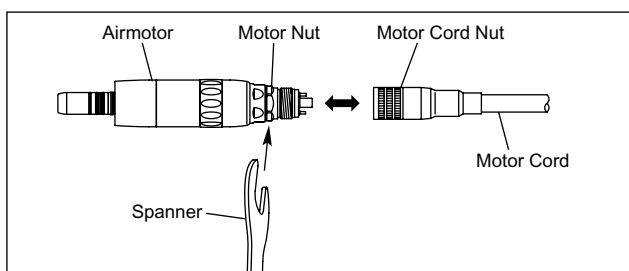


Fig. 1

4. Connection / Disconnecting the Handpiece



Caution

Ensure that the air supply has completely stopped before handling the airmotor.

(1) Connection

Insert the E-type handpiece in the motor insert, and turn until it clicks and positioning mark are aligned.

(2) Disconnecting

Simply pull out the handpiece from the airmotor.

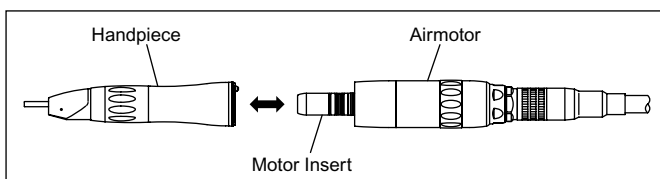


Fig.2

5. 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)

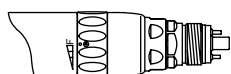


Fig. 3

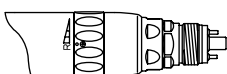


Fig. 4

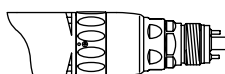


Fig. 5

6. Replacing Bulb

- ① Loosen Motor Housing and detach from the motor, and remove the old light bulb using the small pin, like the screw driver. (Fig. 6)
- ② Align and insert the connector of the new bulb into the socket hole securely. Screw the motor housing securely to the motor.

Optional Bulb : TM Bulb (Pack of 3) Order No.Y900-078

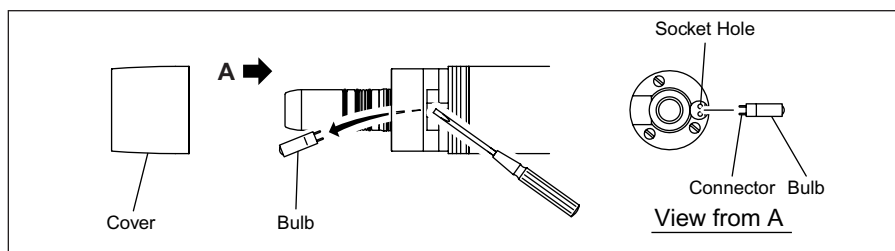


Fig. 6



Caution

Do not touch the glass section of new bulb.

7. Lubrication

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

Lubrication Oil :

Supply 2-3 drops of the lubrication oil into the drive air tube. Run the airmotor for a while, approx. 10 seconds, to deliver the oil into the airmotor.

PANA SPRAY Plus :

- ① Mount the arrow-head spray nozzle tip into the spray port.
- ② Insert the arrow-head spray nozzle in the drive air tube of the handpiece and spray for approximately 2-3 seconds.

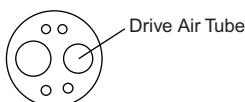


Fig. 7

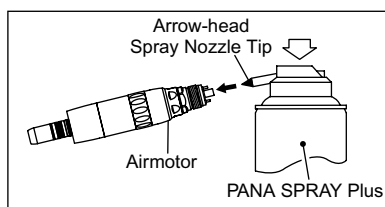


Fig. 8



Caution

- Supply lubricant until it comes out of the exhaust pipe (for approx. 2 seconds).
- Hold the PANA SPRAY Plus can upright.

8. Sterilization

The Ti205L airmotor is Autoclavable.

Autoclaving Procedure :

1. Wipe off dirt with alcohol-soaked cloth.
2. Lubricate the motor. Use PANA-SPRAY 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. Autoclave for 20 minutes at 121°C, or 15 minutes at 132°C.

Do not exceed the sterilizer chamber temperature above 135°C.



Caution

- In case the sterilizer chamber temperature could exceed 135°C during the dry cycle, skip the dry cycle.
- Always place the airmotor 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 wash, soak, or wipe off the handpiece with/in the oxidation potential solution (strong acid, superacid solution) or sterilized solution.

※ Specifications may be changed without notice.



NAKANISHI INC.
700 Shimohinata, Kanuma, Tochigi
322-8666, Japan
www.nsk-inc.com



NSK EUROPE GmbH
Westerbachstraße 58 60489 Frankfurt,
Germany
www.nsk-europe.de



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