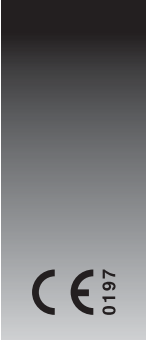




NSK



TEQ / TEP

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

MADE IN JAPAN
OM-C0361E 002



This operation manual is for : TEQ-ER10 / TEQ-ER10M
TEP-ER10 / TEP-ER10M

⚠ CAUTION

- When operating the handpiece always consider the safety of the patient.
- The handpiece is designed only for dental clinical use.
- Should the handpiece function abnormally, cease operation immediately and return the handpiece to the dealer for repair.
- Do not exceed motor speed 40,000 min⁻¹.
- Do not connect or disconnect the handpiece until the drive motor has completely stopped.
- Do not use non-ISO standard files.
- Follow the hand instrument manufacturer's instruction.
- Do not drop nor hit handpiece against hard object.
- Use file only one patient and throw away, or replace after several uses. Excess of metal fatigue could break file.
- Lubricate before autoclaving.
If autoclaving is not preformed, lubricate before each use.
- Do not quickly heat nor quickly cool after autoclaving.
- Do not disassemble nor alter the handpiece.
- Do not wipe with, or clean or immerse in, high acid water or sterilizing solutions.

1. Specification

Model	TEQ-ER10 / TEQ-ER10M	TEP-ER10 / TEP-ER10M
Allowable Max. Speed (Motor)	40,000 min ⁻¹	40,000 min ⁻¹
File	Ø2.35 Engine files (ISO3630-1)	Hand files*
Motion	80° Reciprocating	60° Reciprocating

* Accepts handle diameters Ø3.8-4.1mm. Typical applicable hand instruments : Union Broach, Zipperer, Mani, Meisinger, Komet, Kerr. (TEP-Y)

2. Mounting and Removing File

(1) Mounting

A. Engine file

- To mount file or reamer, while pressing the push button, align shapes of the back end of file and the hole of the head shaft and insert file all the way, and then stop pressing the button. (Fig.1)
- To mount prophy cup or brush for polishing, align shapes of the back end of file and the hole of the head shaft, and push file firmly. (Fig.2)

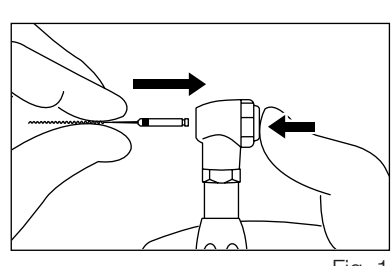


Fig. 1

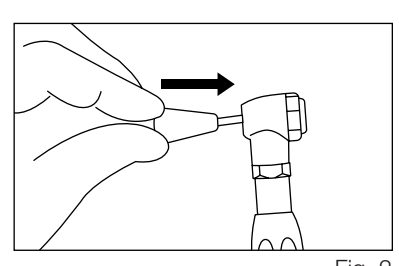


Fig. 2

B. Hand file

- Push the push button to open the chuck. (Fig.3)
- Insert the instrument handle into the chuck (Fig.4) and release the button.

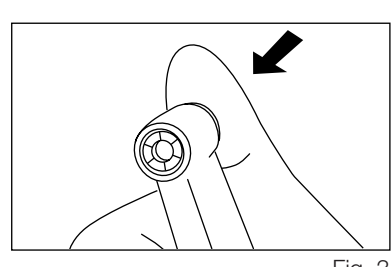


Fig. 3

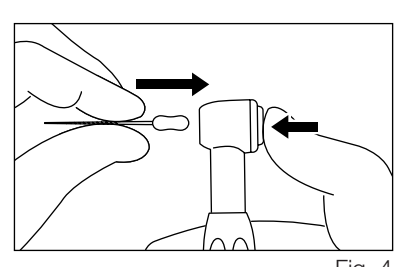
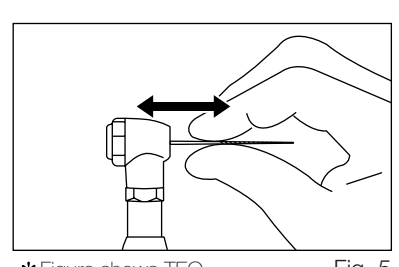


Fig. 4



*Figure shows TEQ. Fig. 5

⚠ CAUTION

Make sure that file is mounted firmly by pulling before use. (Fig.5)

(2) Removing

Push the push button with a thumb, and the file is removed.

3. Lubrication

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.

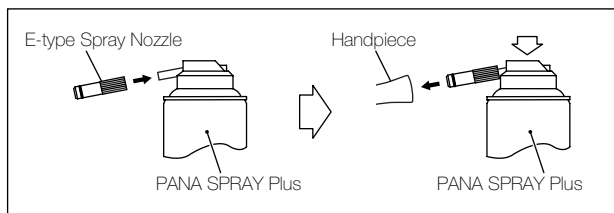


Fig. 6

CAUTION

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

4. Cleaning and Sterilization



The products listed below are washable with Thermo Disinfector.
TEQ- ER10M, TEP- ER10M

Steam autoclave is recommended. Sterilization is required first time you use and 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 3. Lubrication.
- ③ Insert into an autoclave pouch. Seal the pouch.
- ④ Autoclavable up to 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.

CAUTION

- 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.

5. Repair Service

For genuine NSK service and parts always return the handpiece to your NSK dealer.

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