TORX **INSTRUCTIONS FOR USE**



TR-S3

TR-S3-O (with Light)

TR-S3-R-O (with Light and Apex Location Compatibility)







Thank you for purchasing the TORX.

For optimum safety and performance, read this manual thoroughly before using the TORX and pay close attention to warnings and cautions. Keep this manual in a readily accessible place for quick and easy

* Instruments (straight handpiece, contra angle, etc.) have separate user manuals. Be sure to read these manuals before using the instruments and follow all instructions and precautions.

Trademarks and Registered Trademarks:

Parts of the names of companies, products, services, etc. used in this manual may contain either trademarks or registered trademarks owned by each company.

The user (e.g., healthcare facility, hospital, clinic, etc.) is responsible for supervising the use and maintenance of medical devices. This instrument must not be used by anyone other than a dentist, doctor or other legally qualified professional.

Eligible Patients for the TORX:

Children to elderly who can stay still during treatment. A person's weight, gender, and nationality are not

The TORX must not be used for any purpose other than the provision of dental treatment.

The following symbols and expressions indicate the degree of danger and harm that could result from ignoring the instructions they accompany:



This warns the user of the possibility of serious injury or death to the patient, damage or complete destruction of the instrument or other valuable property, and fire.

This warns the user of the possibility of slight or moderate injury to the patient.



This alerts the user of important points concerning operation of the instrument or the risk of damage to it

Disclaimer

- J. MORITA MFG. CORP. will not be responsible for the following matters, even during the warranty period.
- 1. Repairs made by personnel not authorized by J. MORITA MFG. CORP.
- 2. Any changes, modifications, or alterations of its products.
- 3. The use of products or equipment made by other manufacturers, except for those procured by J. MORITA MFG. CORP
- 4. Maintenance or repairs using parts or components other than those specified by J. MORITA MFG. CORP, and other than in their original condition.
- 5. Operating the product in ways other than the operating procedures described in this manual or resulting from the safety precautions and warnings in this manual not being observed.
- 6. Workplace conditions and environment or installation conditions which do not conform to those stated in this manual such as improper electrical power supply
- 7. Malfunction or damage resulting from a natural disaster, such as a fire, earthquake, flood, or light-
- The useful life of the TORX is 7 years from the date of installation provided it is regularly and properly inspected and maintained.

In Case of Accident

If an accident occurs, this instrument must not be used until repairs have been completed by a qualified and trained technician authorized by the manufacturer

For customers who use this device in the EU:

If any serious incident occurs in relation to the device, report it to a competent authority of your country, as well as the manufacturer through your regional distributor. Observe relevant national regulations for detailed procedures.

Standards and Procedures for the Disposal of Medical Devices

When disposing of this device, it should fall into the category of infectious waste.

The dentist or doctor must confirm that the device is uncontaminated, and must then have it disposed of by a healthcare facility or an agent licensed and qualified to handle standard industrial waste and industrial waste requiring special treatment.

Operating, Transport and Storage Environments

Operating Environments

Temperature: +10°C to +35°C (+50°F to +95°F), Humidity: 30% to 80% (without condensation), Atmospheric Pressure: 70 kPa to 106 kPa

<u>Transport and Storage Environments</u>

Temperature: -10°C to +70°C (+14°F to +158°F), Humidity: 10% to 85% (without condensation), Atmospheric Pressure: 70 kPa to 106 kPa

- * Do not expose the device to direct sunlight for an extended period of time.
- * If the device will not be used for an extended period of time, store it in a clean, dry place after reprocessing it.

Parts Identification LED Lamp (TR-S3-O, TR-S3-R-O) Shutter O-rings (TR-S3-R-O) Connection Cylinder Motor Cover Tip Air Hole Electrode

Accompanying Items

O-ring Set (Qty: 1 set) Code No. 5812385



Symbols

(1 red, 3 blacks)

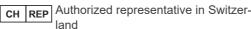
* Some symbols may not be used



CE(0197) marking Conforms with the European Directive, 93/42/EEC.



Conforms with the European Directive, 2011/65/EU.





Serial number

Medical device

GS1 DataMatrix

Humidity limitation

Date of manufacture

Fragile

This way up

Distributor

Refer to instructions for use

Supports Washer-Disinfectors

93/42/EEC

EU Authorized Representative

under the European Directive



Unique device identifier



Type B applied part



WEEE directive marking



Autoclavable up to +135°C (+275°F)



Temperature limitation



Atmospheric pressure limitation



Keep away from rain



Manufacturer



Importer

12-3-4-5-6789012



Registration number of medical device in Thailand (The 12-digit sample number shown is for demonstration purposes only.)



Country or region

(Country Names: Conforming to the ISO 3166-1 alpha-3 codes and EU for European Union) Description noted next to the code is an indication that conforms to the regulations valid only for the relevant country or region.

Technical Specifications

* Specifications may be changed without notice due to improvements.

Generic Name	Dental Electric Motor		
Туре	TR-S3	TR-S3-O	TR-S3-R-O
Apex Location Compatibility	NO YES		
Light Source	N/A	LE	ED .
Indications for Use	This instrument is for polishing and drilling teeth and prosthetic devices.		
Operating Principle	The TORX transduces electric energy into rotational power, and controls the motor rotation.		
Essential Performance	None (There is no unacceptable risk.)		
Degree of Protection against Electric Shock	Type B applied part		
Applied Part	Micromotor		
Rated Input Voltage	DC 30 V to 40 V (2MOPP for supply mains)		
Water Spray Volume	50 mL/min or more at 0.2 MPa input pressure		
Tip Air Volume	6.0 NL/min or more at 0.38 MPa input pressure		
Cooling Air Volume	6.0 NL/min or more at 0.38 MPa input pressure		
Torque	3.0 N·cm		
Rotation Speed	100 ± 10 rpm to 40,000 ±2,000 rpm		
Connection Figure	Conform to ISO 3964		
Connectable Handpieces	Conform to ISO 14457		
Dimensions	Approx. 65 mm		
Diameter	Approx. 22 mm		
Weight	Approx. 65 g		

 The TORX confirms to the relevant international standard for electromagnetic disturbances (EMD). Refer to the separate TORX Technical Information.

Service and Contacts

Development and Manufacturing

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MORITA DENTAL ASIA PTE, LTD.

The TORX may be repaired and serviced by:

- The technicians of J. MORITA's subsidiaries all over the world.
- Technicians employed by authorized J. MORITA dealers and specially trained by J. MORITA.
- · Independent technicians specially trained and authorized by J. MORITA.
- * For repairs or other types of service, contact your local dealer or J. MORITA OFFICE.

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Usage

Prohibitions

PROHIBITION

- Do not use the TORX on patients who have implanted pacemakers or defibrillators.
- · No modification of the TORX is allowed.
- Do not perform maintenance while using the TORX for treatment.
- Do not use the wireless transmission devices listed below in the examination area:
- 1. Mobile phones and smart devices
- 2. Wireless transmitting devices such as ham radios, walkie-talkies, and transceivers.
- 3. Personal Handy-phone System (PHS)
- Routers for intra-building paging systems, wireless LAN, cordless analogue telephones, and other electric wireless devices
- The TORX could be adversely affected by the electromagnetic radiation produced by electric scalpels, illumination devices etc. that are being used nearby.

Precautions

MWARNING

- To prevent infection, be sure to perform the handpiece reprocessing procedures after use with each patient. Reprocessing
- Always wear personal protective equipment (PPE), such as safety glasses, gloves, a mask, etc. when using this handpiece.
- To use the apex location function, connect the CA-10RC-ENDO (speed reduction endodontic contra handpiece for the TORQTECH) designated by J. MORITA MFG. CORP. to the TR-S3-R-O. The apex location function will not work if the CA-10RC-ENDO is connected to the TR-S3 or TR-S3-O. (For the apex location function, refer to the user manual for your dental treatment unit and the Operation Instructions for the CA-10RC-ENDO.)
- Before using the apex location function, touch the file attached to the CA-10RC-ENDO with the contrary electrode on the probe cord connected to the dental treatment unit and check that all the bars on the apex location display on the treatment unit light up without exception.
- Before use, run the instrument outside the patient's oral cavity to make sure it rotates at the right speed and direction and it does not make an abnormal noise.
- Do not move the handpiece in and out the patient's oral cavity while the handpiece is running.
- Never connect or disconnect a handpiece while the micromotor is running. Otherwise, the patient could be injured or the micromotor or handpiece could be damaged.
- Do not shine the LED directly in the eye. This could impair one's eyesight.
- Stop using the instrument immediately if you feel the micromotor or handpiece or both is hot.
- Do not use the instrument if there is no cooling air, or not enough. Otherwise, the micromotor or handpiece or both might heat up considerably. (The CA-10RC-ENDO does not emit water spray and tip air.)
- Using the handpiece without the water spray could overheat and burn the treatment area. (The CA-10RC-ENDO does not emit water spray and tip air.)
- When a straight handpiece's chuck is open, the micromotor will lock up. If you continue to use the instrument under this condition, both the handpiece and the micromotor will heat up considerably. This could burn the patient and user, or damage the micromotor.
- If a worn handpiece is used, the micromotor or handpiece or both could overheat and burn the patient and user.
- If the micromotor stops running, have it inspected and repaired. Otherwise, if you try to run it by holding the foot control down, the micromotor could overheat and burn the user.

ACAUTION

- If the micromotor is used continuously for a long time, it could get hot enough to cause a low temperature burn. Stop using it immediately and wait for it to cool off.
- 1 Do not pull the motor cover towards the main tube end while the micromotor is running. Otherwise, this could cause the handpiece to come off.
- Do not give the main tube a hard pull. This could break a wire or cause a short.

Before Use

* Be sure to perform reprocessing on the respective parts before using them for the first time. Reprocessing

Before using the device, always check the following points.

- Make sure the handpieces (straight handpiece, contra angle, etc.) can be put on and taken off properly. Put them on and take them off 3 times each.
- Connect the handpiece to the micromotor, and then run the micromotor and pull the handpiece with the force that could be applied when in use. Make sure the handpiece does not come off.
- * Do not attach a bur or point to the handpiece when you do this.
- * Turn the tip air on and water spray off when you do this.
- · Make sure the handpieces hold grinding tools securely.
- Without attaching the handpiece, run the micromotor alone at 40,000 rpm. Make sure it runs smoothly without making any abnormal noise. Also, make sure cooling air comes out of the connection cylinder, and tip air comes out of the tip air hole.
- * Turn the water spray off when you do this.
- Without attaching the handpiece, run the micromotor alone at 40,000 rpm for 3 minutes and see if it feels like it heats up.
- * Turn the tip air on and water spray off when you do this.

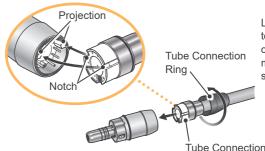
Then, connect a handpiece (except the CA-10RC-ENDO) to the micromotor and make sure nothing goes wrong when performing the same inspection.

- * Turn both the tip air and water spray on when you do this.
- Connect a handpiece (except the CA-10RC-ENDO) to the micromotor and run at 40,000 rpm. Make sure it runs smoothly without making any abnormal noise. Also, make sure water spray comes out in a fine mist, there is no water leaking from the micromotor joints, and the LED lights up properly.
- · Make sure the tube connection ring for the micromotor is not loose.
- Apex Location with TR-S3-R-O

Touch the file attached to the CA-10RC-ENDO with the contrary electrode on the probe cord connected to the dental treatment unit and make sure that all the bars on the apex location display on the treatment unit light up without exception.

If you find any abnormalities, stop using the micromotor immediately and contact your local dealer or J. MORITA OFFICE to have it repaired.

Micromotor Connection



Line up the projection on the micromotor connection with the notch in the tube connection and slide the tube onto the micromotor. Then tighten up the tube ring securely

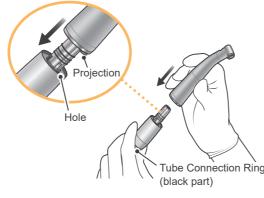


Slide the motor cover straight back on the micromotor

CAUTION

- After connecting the micromotor with the tube connection, make sure the tube connection ring is properly tightened. Otherwise, it could come off during use, or water and air might leak.
- 1 Make sure that there is no dirt on the main tube connection. This could result in a malfunction.
- Handle the micromotor carefully. Do not drop it or bang it. This could deform the motor cover or impair the motor's operation

Connecting Handpiece



Slide the handpiece straight onto the micromotor's connection cylinder until it clicks securely into place. For handpiece models equipped with a light, slightly rotate the handpiece so that its projection fits in with the hole on the micromotor. If the projection and hole fit properly, there will be a clicking sound.

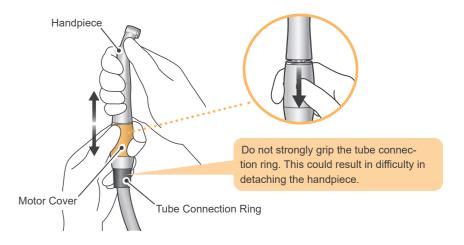
MARNING

- Before using the handpiece, hold the tube connection ring and give the handpiece a light tug to make sure it is securely connected to the micromotor.
- Wait until the micromotor stops completely before connecting or removing the handpiece.

CAUTION

- Always hold the tube connection ring to connect a handpiece. If you hold the motor cover, the handpiece may not lock in place securely.
- () If handpiece insertion/removal becomes tight, apply a small amount of the LS OIL or MORITA MULTI SPRAY to the O-rings of the micromotor's connection cylinder. Wipe off any excess oil on the O-rings.
- Make sure the chuck for the straight handpiece is closed before connecting it to the micromotor.
- 1 Always remove handpieces after use and at the end of the day to prevent maintenance oil from seeping into the micromotor and damaging it.

4 Disconnecting Handpiece



Hold the motor cover firmly and pull the handpiece straight off. (The TORX series has a sliding mechanism the motor cover to disconnect the handpiece.)

Reprocessing

There are two ways to perform reprocessing depending on

- Parts to be Sterilized
- Parts to be Disinfected

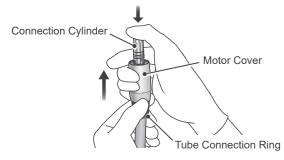
MARNING

- To prevent the spread of infections, be sure to perform the reprocessing procedures after use with each patient.
- · Be careful to avoid cross infection when performing reprocess-
- · Always wear personal protective equipment (PPE) such as safety glasses, gloves, a mask, etc. when performing the reprocessing procedures.

ACAUTION

- When performing reprocessing procedures, always turn off the dental treatment unit and make sure that the device will not operate.
- After use, perform reprocessing promptly. If the parts are left contaminated with blood, it will be difficult to remove
- Be sure to remove the handpiece before reprocessing.

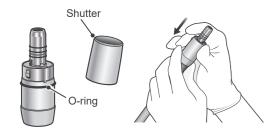
Preparation



Holding the tube connection ring, grip the motor cover and press down on the connection cylinder with your thumb to slide the cover off the micromotor.

① Do not hold the main tube and pull the motor cover to take it off. This could break a wire or cause a short.

After Reprocessing



Apply a small amount of the LS OIL or MORITA MULTI SPRAY to the O-ring and shutter of the motor cover, and then slide the motor cover straight onto the micromotor.

CAUTION

- Do not run the micromotor without its motor cover.
- If you do not oil the motor cover, it will be hard to put it on. Wipe off any excess oil on the O-ring and inside the motor cover.

Parts to be Sterilized



Motor Cover

* Be sure to perform the reprocessing procedures promptly after use with each patient by following procedures 1 through 4.

Pre-treatment

This must be performed after use with each patient.



Wipe the parts with a piece of gauze or microfiber cloth (e.g., Toraysee for CE - Medical Equipment and Instruments Maintenance Cloth) that has been dampened with tap water to remove visible contam-



Alternatively, clean the parts in running water with a soft brush to remove visible contaminants.

- Do not use any chemicals that may coagulate proteins before cleaning.
- If a medical agent being used for the treatment has adhered to the part, wash it off under tap water.
- Do not clean the parts with an ultra sonic cleaning

Packaging



Place the motor cover in a sterilization pouch.

- Use sterilization pouches that conform to ISO
- 1 Do not use any sterilization pouches that contain hydrosoluble adhesive ingredients such as PVA (polyvinyl alcohol).

Note that even ISO 11607 conformable sterilization pouches may contain PVA.

Cleaning & Disinfection

Recommended Conditions for

Rinse

(concentration)



After cleaning there may be streaks or white spots on the parts. Use a neutralizer only if there are streaks or white spots

neodisher MediKlar

(0.03% to 0.05%)

Put the motor cover in the parts washing basket.

Select the washer-disinfector's mode as shown in the chart above and start the process.

After completing the cleaning process, make sure the motor cover is thoroughly clean.

Expel remaining moisture on the surface or inside the motor cover with compressed air.

Recommended Autoclave Settings

Time

15 minutes

30 minutes

Time

3 minutes

5 minutes

min

6 minutes

min

Drying Time

after Steril-

ization

15 minutes

Drying Time

after Steril-

ization

10 minutes

min

10 minutes

Sterilization

Temperature

+132°C

(+269.6°F)

+121°C

(+249.8°F)

Temperature

+134°C

(+273.2°F)

+134°C

(+273.2°F)

+134°C

(+273.2°F)

+121°C

Country: Other than U.S.A.

!!!

Sterilizer

Type

Gravity

Sterilizer

Type

Dynamic

Air Removal

Gravity

Country: U.S.A.

↑ WARNING

- If any moisture is left inside the motor cover after cleaning, it could cause corrosion or poor sterilization. Also, the remaining water may come out during use. After cleaning, use a syringe or compressed air to expel remaining moisture.
- Be sure to use washer-disinfectors that conform to ISO 15883-1 (must be capable of achieving disinfection values of not less than $A_0 = 3000$).
- If your region is susceptible to hard water scale buildup,
- 1 For details on handling detergents and neutralizers, con-
- Inappropriate cleaning methods and solutions may damage the motor cover
- Do not use strong acidic or alkaline chemicals that could cause the metal to corrode.
- After completing the cleaning process, expel remaining moisture inside the motor cover with compressed air.
- out during the cleaning process due to contact with the necessary depending on degree of scratches and wear.
- Do not clean the micromotor.
- 1 Do not drop or bang the motor cover. This could deform

- Be sure to remove visible contaminants before this step. Pre-treatment

- may cause corrosion or malfunction of the parts.
- it. If it is deformed, there will be a gap between the cover and the handpiece and light or cooling air might leak out.

- use deionized water (ion-exchanged water).
- centration, water quality as well as parts washing baskets, refer to the accompanying user manual for the washer-dis-
- 1 Do not leave the motor cover in the washer-disinfector. This
- Surface of the motor cover may get scratched and worn parts washing basket or other parts. Replace the parts as

he spread of infections, the parts must be after each patient's treatment has been	

- Parts are extremely hot right after autoclaving. Wait
- Do not sterilize the parts by any method other than autoclav-
- autoclaving could damage or discolor the part. Thoroughly clean and disinfect the parts before autoclaving.
- must be +135°C (+275°F) or lower. If the temperature is set at beyond +135°C (+275°F), it may cause a malfunction or stain on the parts.
- Do not autoclave any parts other than the motor cover.
- After completion of the autoclaving process, do not leave the motor cover in the autoclave.

Pre-treatment -

1 through 2

Parts to be Disinfected

This must be performed after use with each patient.

Be sure to perform the reprocessing procedures prompt-

ly after use with each patient by following procedures

Micromotor and

Main Tube



Wipe the parts with a piece of gauze or microfiber cloth (e.g., Toraysee for CE - Medical Equipment and Instruments Maintenance Cloth) that has been dampened with tap water to remove visible contaminants. Then wipe off moisture completely with a

CAUTION

- · After handpiece lubrication, be sure to remove the excess oil. If any oil seeps inside the micromotor, it could result in a malfunction. Also, it may result in micromotor overheating causing a low-temperature burn.
- Refer to the user manuals for the handpieces for how to remove excess oil.
- 1 Do not use any chemicals that may coagulate proteins before clean-
- If a medical or adhesive agent being used for the treatment has adhered to the part, immediately remove it with a piece of gauze or microfiber cloth (e.g., Toraysee for CE - Medical Equipment and Instrument Maintenance Cloth) that has been dampened
- Do not clean the parts with an ultra sonic cleaning device.
- Do not wet the electrical contacts.

Cleaning & Disinfection

Wipe the part's surface with disinfectants approved by J. MORI-TA MFG. CORP.

Disinfectants Approved by J. MORITA MFG. CORP.

Disinfectant	Country	
Ethanol (70 vol% to 80 vol%)	USA	
Opti-Cide3 (wipes)	U.S.A.	
FD333 forte (wipes)	Other than U.S.A.	

- Make sure that there is no visible moisture and contamination when wiping the parts.
- Be sure not to tug on the main tube when you clean it. This could cause the wire to break
- Be sure to lubricate the O-rings after cleaning the surface of the connection cylinder and the O-rings. Lack of lubricant will damage the O-rings and the motor cover will be hard to remove and air or water might leak
- 1 Do not use disinfectants other than those designated by J MORITA MFG. CORP.
- For details on handling disinfectants, refer to the accompanying user manual for each disinfectant.
- If too much disinfectant is applied to the piece of gauze or microfiber cloth, it will seep into the part and cause a malfunction.
- 1 Do not immerse the parts in or wipe them with any of the following: functional water (acidic electrolyzed water, strong alkaline solution, and ozone water), medical agents (glutaral, etc.), or any other special types of water or commercial cleaning liquids. Such liquids may result in metal corrosion or adhesion of the residual medical agent to the parts.
- 1 Do not clean or immerse the parts with chemicals such as formalin cresol (FC) and sodium hypochlorite. These will damage the metal and plastic parts. Immediately wipe away any chemicals that are accidentally spilled on the parts.

↑ WARNING

 To prevent th autoclaved a completed.

↑ CAUTION

- for them to cool off before touching.
- If chemical solutions or foreign debris are not removed,
- 1 The setting temperature for sterilization and drying process

After autoclaving, store the parts in a clean and dry environment.

(+249.8°F) | 60 minutes

Troubleshooting

If the TORX does not seem to be working properly, first inspect the points described below. Before inspection and adjustment, check to see if the main switch of the device, such as a dental treatment unit that the handpiece is connected to, is turned on and if the main air and water valves are open.

* For repair or other types of service, contact your local dealer or J. MORITA OFFICE.

Problem	Check Points	Remedies
Micromotor does not run.	Check micromotor main tube connection.	Check micromotor connection. [
	Remove the handpiece from the micromotor and step on the foot control. Does the micromotor run?	If the micromotor starts running, the handpiece requires inspection and repair. If the micromotor still does not run, see Check Point (1)
	(1) Step on the foot control and bend or twist the main tube slightly near the tube connection ring. Does the micromotor run?	If the micromotor runs sometimes, wiring inside the main tube is breaking. Have the main tube inspected and repaired. If the micromotor does not run at all, have the micromotor and dental treatment unit inspected and repaired.
No water is emitted.	Check that the dental treatment unit's handpiece water switch is turned on. Check that the dental treatment unit's spray adjustment knob is open.	Turn the dental treatment unit's handpiece water switch on. Open the dental treatment unit's spray adjustment knob.
	Remove the handpiece from the micromotor and step on the foot control. Does water come out of the motor joint?	If water comes out, see Check Point (2) and (3). Then reconnect the handpiece and check that water comes out of the handpiece. If water does not come out, have the handpiece inspected and repaired. If water does not come out of the micromotor, see Check Point (4).
	(2) Check the connection cylinder's O-rings are properly installed.	If you find any damaged or worn-out O-rings, replace them with new ones. O-ring Replacement
	(3) Check that the spray hole(s) is not clogged.	Clean the holes for air and water on the hand- piece.
	(4) Detach the micromotor from the tube connection and step on the foot control. Does water come out of the main tube?	If water comes out, have the micromotor inspected and repaired. If water does not come out, have the main tube and dental treatment unit inspected and repaired
	Is the CA-10RC-ENDO (speed reduction model for endodontics) connected?	The CA-10RC-ENDO does not have water spray function.
Water leakage	Check micromotor tube connection and handpiece connection.	Check micromotor and handpiece connections. 2 Micromotor Connection 3 Connecting Handpiece
	Are the O-rings on the connection cylinder worn out or damaged?	Replace all O-rings on the connection cylinder. O-ring Replacement
LED does not work.	Check that the dental treatment unit's handpiece light switch is turned on.	Turn the dental treatment unit's handpiece light switch on.
WOTK.	Check handpiece connection.	Check handpiece connection. Connecting Handpiece
	Does the micromotor have a LED lamp?	Use micromotors equipped with a LED lamp.
	Does the handpiece have a light?	Connect handpiece equipped with a light.
	Check that the LED lamp has not burned out.	Replace the LED lamp. Example LED Lamp Replacement If it still does not work, have the dental treatment unit inspected and repaired.
	Is the CA-10RC-ENDO connected?	The CA-10RC-ENDO does not have light capability.

Replacement Parts

- * Replace parts as necessary based on the degree of wear and length of use.
- * Order parts from your local dealer or J. MORITA OFFICE.

O-ring Replacement

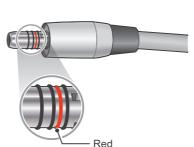
Consumables

O-ring Set (Qty: 1 set)

Code No.5812385 (1 red, 3 blacks)



* The O-rings on the connection cylinder wear out after a while, and this leads to air and water leakage. Replace all 4 O-rings at the same time. Make sure the red O-ring is in the right place.



Remove the O-rings with tweezers or another such tool and install the replacements. Make sure that the red O-ring is in the right place.

After the replacement, apply a small amount of the LS OIL or MORITA MULTI SPRAY to the O-rings. Wipe off any excess oil on the O-rings.

- Use only O-rings that have been designed specifically for use with the device.
- If the red O-ring is not in the right place, air or water or both could start to leak.

LED Lamp Replacement

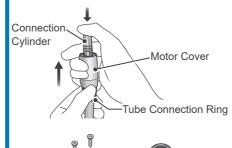
Consumables

LED Lamp (Qty: 1)

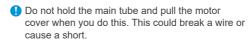
Code No.5011575



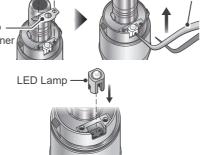
* Replace the LED lamp when it stops lighting up.



Holding the tube connection ring, grip the motor cover and press down on the connection cylinder with your thumb to slide the cover off the micromotor.



Remove the 2 screws and take the lamp retainer off. Insert a tip of tweezers into the groove on the LED lamp and pull it out in the direction shown by the arrow in the illustration.



Fit the LED lamp terminals into the socket and push it into place.



Regular Inspection

- * Regular inspection is generally consider to be the duty and obligation of the user, but, if, for some reason, the user is unable to carry out this duty, this may be performed by the accredited service personnel. Contact your local dealer or J. MORITA OFFICE for details.
- * The TORX should be inspected every 3 months in accordance with the following regular inspection items.
- * For repair or other types of service, contact your local dealer or J. MORITA OFFICE.
- * J. MORITA MFG. CORP. will offer replacement parts and service for the product for a period of 10 years after the manufacturing of the product has been discontinued. Replacement parts and service will continue to be available during that period.

■ Regular inspection items

Inspection Item		Check Point	
1	Micromotor Connection	Check that the tube connection ring for the micromotor is not loose.	
2	Handpiece Connection	Connect a handpiece and run the motor, and then pull the handpiece with a force similar to that applied during treatment to see that the handpiece does not come off. Test this three times.	
3	Micromotor Rotation and Spray	Run the micromotor at maximum speed without a handpiece and check the following points. 1. The rotation is smooth with no abnormal noise. 2. The cooling air is coming out from the connection cylinder.	
		Connect a handpiece and run the micromotor at maximum speed to check the following points. 1. The rotation is smooth with no abnormal noise, and the spray has a fine, misty consistency. 2. There is no air or water leakage at the handpiece or main tube connections. 3. The LED lamp turns on. (Only for models with light capability.)	
4	Overheating	Run the micromotor without connecting a handpiece at maximum speed for 3 minutes and check if it feels abnormally warm. Connect a handpiece to the micromotor and check the same as above.	

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