TORX INSTRUCTIONS FOR USE



TR-S2

TR-S2-O (with Light)

TR-S2-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

* Each instrument (straight handpiece, contra angle, etc.) has a separate Instructions for Use. 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.

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.

To access the warranty information for this product, scan the following QR code and visit our website.



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

The dentist or doctor responsible for the patient's treatment must confirm that a medical device, explants, needles or surgical equipment are uncontaminated with potentially infectious substances of human origin. 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.



Metal parts of the device are disposed of as scrap metal. Synthetic materials, electrical components, and printed circuit boards are disposed of as electrical scrap. Material must be disposed of according to the relevant national legal regulations. Consult specialized disposal companies for this purpose. Please inquire of the local administration concerning local disposal companies.



Instructions for Use in Electronic Format (eIFU)

The electronic data (PDF document) of the Instructions for Use is available. Scan the following QR code and visit our website.



In order to view PDF documents, you will need the free Adobe Acrobat Reader distributed by Adobe Inc. Download the latest version via the Adobe website. PDF documents may not be displayed correctly using previous versions.

Intended Use

■ Purpose

Drive the instrument for cutting or polishing teeth, dentures, crowns, etc. electrically.

a) Qualification : Legally qualified person such as dentists (it may differ among countries).

b) Education and Knowledge

Have basic knowledge on sanitary control including dental treatment and mutual

infection.

English and local language c) Language

Person with experience operating dental micromotor. d) Experience

No special training is required except in cases where this is required by legal regu-

lations of the relevant country or region.

■ Patient Population

Child to Elderly Weight : Not applicable Nationality: Not applicable Sex : Not applicable

Condition : Conscious and mentally alert person. (Person who can stay still during treatment.)

: It is not intended for use on patients wearing a pacemaker or ICD (implantable cardiovert-Health

■ Environment

This device is used in general dental clinics and hospitals (Professional healthcare facility environment), and the following environment is assumed:

- Non-sterile environment
- Normal room lighting
- Noisy environment where the sound emitted by this device is audible

Operating environments

+10°C to +35°C (+50°F to +95°F) Temperature Humidity 30% to 80% (without condensation)

Atmospheric Pressure 70 kPa to 106 kPa

Transport and Storage environments

-10°C to +70°C (+14°F to +158°F) Temperature 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 has not been used for some time, be sure to check that it works properly before using it again.
- * If the device will not be used for an extended period of time, store it in a clean, dry place after the reprocessing procedures.

■ Medical Indications

Polishing and drilling teeth and prosthetic devices.

For the above indications, this device applies rotational driving force to connected instruments (contra-angle, etc.) and controls the direction of rotation.

■ Contraindications, Warnings and Considerations

Patient auxiliary current (when linked with Root ZX mini U and TORQTECH CA-10RC-ENDO)

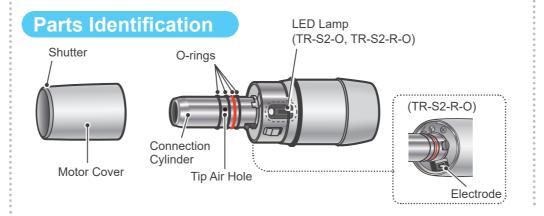
Root ZX mini U locates the root apex by passing an auxiliary current through the patient via electrode of this device and TOROTECH CA-10RC-ENDO

So do not use this device on patients who have implanted pacemakers or defibrillators.

There are no known adverse effects in treating soft or hard tissue applications.

■ Supposed Useful Life

The useful life of the TORX is 7 years from the date of installation provided it is regularly and properly inspected and maintained



Technical Specifications

* Specifications may be changed without notice due to improvements.

Generic Name	Dental Electric Motor		
Туре	TR-S2	TR-S2-O	TR-S2-R-O
Apex Location Compatibility	NO		YES
Light Source	N/A LED		
Degree of Protection against Electric Shock	Type B applied part		
Applied Part	Micromotor		
Rated Input Voltage	DC 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 ± 40 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.

Accompanying Items

Code No. 5812385 (1 red, 3 blacks)



Service and Contacts

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.

nment and Manufacturing J. MORITA MFG. CORP.

Fushimi-ku, Kyoto 612-8533, Japan T +81. (0)75. 611 2141, F +81. (0)75. 622 4595 Morita Global Website www.morita.com

J. MORITA CORP. -33-18 Tarumi-cho, Suita-shi, Osaka 564-8650, Japan +81. (0)6. 6380 1521, F+81. (0)6. 6380 0585

9 Mason, Irvine CA 92618, USA T +1. 949. 581 9600, F +1. 949. 581 8811

J. MORITA EUROPE GMBH Justus-von-Liebig-Strasse 27b, 63128 Dietzenbach, Germany T +49. (0)6074. 836 0, F +49. (0)6074. 836 299

MORITA DENTAL ASIA PTE. LTD. 150 Kampong Ampat #06-01A KA Centre, Singapore 368324 T +65. 6779. 4795, F +65. 6777. 2279

J. MORITA CORP. AUSTRALIA & NEW ZEALAND Suite 2.05, 247 Coward Street, Mascot NSW 2020 T +61. (0)2. 9667 3555, F +61. (0)2. 9667 3577

Medical Technology Promedt Consulting GmbH Ernst-Heckel-Straße 7, 66386 St. Ingbert, Germany T+49.6894 581020, F+49.6894 581021

The authority granted to the authorized representative, Medical Technology Promedt Consulting GmbH, by J. MORITA MFG. CORP, is solely limited to the work of the authorized representative with the requirements of the European Directive 93/42/EEC for product registration and incident

J MORITA CORP MIDDLE FAST 4 Tag Al Roasaa, Apartment 902, Saba Pacha 21311 Alexandria, Egypt T +20. (0)3. 58 222 94, F +20. (0)3. 58 222 96

J. MORITA CORP. INDIA Filix Office No.908, L.B.S. Marg, Opp. Asian Paints, Bhandup (West), Mumbai 400078, India T+91-82-8666-7482

. MORITA MFG. CORP. INDONESIA Kay, 3-5. Jakarta 12940. Indonesia

SIAMDENT CO., LTD. 71/10 Moo 5 T. Tharkham A. Bangpakong Chachuengsao 24130 Thailand T +66 (0) 3857 3042, F +66 (0) 3857 3043 www.siamdent.com

Usage

Prohibitions

♠ PROHIBITION

- · Do not use the TORX on patients who have implanted pacemakers or defibrillators.
- Do not use the wireless transmission devices listed below in the examination area:
- 1. Mobile terminals 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

MARNING

- No modification of the TORX is allowed.
- Do not perform maintenance while using the TORX for treatment.
- 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-S2-R-O. The apex location function will not work if the CA-10RC-ENDO is connected to the TR-S2 or TR-S2-O. (For the apex location function, refer to the Instructions for Use of your dental treatment unit and 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.

CAUTION

- 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.

1 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.

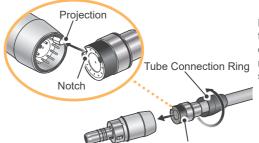
Then, connect a handpiece (except the CA-10RC-ENDO) to the micromotor and make sure nothing goes wrong when performing the same inspection.

- * 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 any abnormal noise, it runs in the intended direction, the 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-S2-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.

Tube Connection

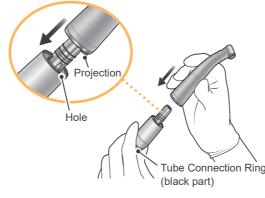


Slide the motor cover straight back on the micromotor

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.
- 1 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



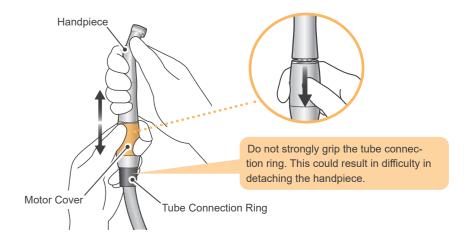
Slide the handpiece straight onto the micromotor's connection cylinder until it clicks securely into place. For handpiece models equipped with a light, slightly rotate the handpiece so that its projection fits in with the hole on the micromotor. If the projection and hole fit properly, there will be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

MWARNING

- 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.

- 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.
- 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

Hygiene Plan Guidebook

A reference guidebook of hygiene information about our products is available. Scan the following QR code and visit our website.



In order to view PDF documents, you will need the free Adobe Acrobat Reader distributed by Adobe Inc. Download the latest version via the Adobe website. PDF documents may not be displayed correctly using previous versions

There are two ways to perform reprocessing depending on the items.

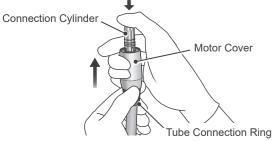
- Parts to be Sterilized
- Parts to be Disinfected

- 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 reprocessing.
- Always wear personal protective equipment (PPE) such as safety glasses, gloves, a mask, etc. when performing the reprocessing procedures.

CAUTION

- 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.

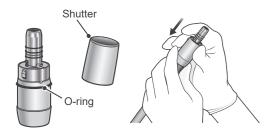
Preparation



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.
- 1 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 Washer-Disinfectors

Unit Name	Miele G7881
Mode	Vario TD
Detergent (concentration)	neodisher MediClean (0.3% to 0.5%)
Rinse (concentration)	neodisher MediKlar (0.03% to 0.05%)

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

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

(+249.8°F) | 60 minutes

After autoclaving, store the parts in a clean and dry

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

Autoclave the autoclavable parts.

Country: Other than U.S.A.

!!!!

Sterilizer

Type

Gravity

Sterilizer

Type

Dynamic

Air Removal

Gravity

environment.

Country: U.S.A.

- 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, concentration, water quality as well as parts washing baskets, refer to the accompanying Instructions for Use of the washer-disinfector
- 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.
- 1 Do not leave the motor cover in the washer-disinfector. This
- Surface of the motor cover may get scratched and worn out during the cleaning process due to contact with the necessary depending on degree of scratches and wear.
- Do not clean the micromotor.

↑ WARNING

- Pre-treatment

- Inappropriate cleaning methods and solutions may damage

- may cause corrosion or malfunction of the parts.

- 1 Be sure to remove visible contaminants before this step.
- use deionized water (ion-exchanged water).

- parts washing basket or other parts. Replace the parts as
- 1 Do not drop or bang the motor cover. This could deform it. If it is deformed, there will be a gap between the cover and the handpiece and light or cooling air might leak out.

• To prevent the spread of infections, the parts must be autoclaved after each patient's treatment has been completed

CAUTION

- for them to cool off before touching.
- Do not sterilize the parts by any method other than autoclav-
- If chemical solutions or foreign debris are not removed, autoclaving could damage or discolor the part. Thoroughly clean and disinfect the parts before autoclaving.
- 1 The setting temperature for sterilization and drying process 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.
- After completion of the autoclaving process, do not leave the motor cover in the autoclave.

↑ WARNING

- Parts are extremely hot right after autoclaving. Wait
- Do not autoclave any parts other than the motor cover.

Parts to be Disinfected



Be sure to perform the reprocessing procedures promptly after use with each patient by following procedures

1 through 2

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 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 Instructions for Use of 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%)	U.S.A.	
Opti-Cide3 (wipes)		
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 Instructions for Use of each disinfectant If too much disinfectant is applied to the piece of gauze or mi-
- crofiber 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

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.

residual medical agent to the parts.

TR-S2, TR-S2-O, TR-S2-R-O

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. 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 emit-ted.	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. Micromotor Connection 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.
	Check handpiece connection.	Check handpiece connection. S 3 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. LED Lamp Replacement If it still does not work, have the dental treatment
	Is the CA-10RC-ENDO connected?	unit inspected and repaired. The CA-10RC-ENDO does not have light capa-
	15 27 1010 ENDO COMINGUES	bility.

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.
- * Ensure you use only genuine parts manufactured by J. MORITA MFG. CORP.

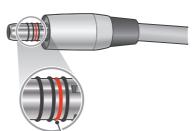
O-ring Replacement

Consumables





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



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.

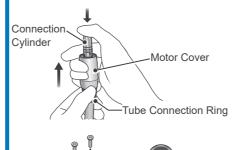
- 1 Use only O-rings that have been designed specifically for use with the device.
- If the red O-ring is not in the right place, air or water or both could start to leak.

LED Lamp Replacement

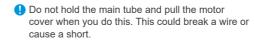
Consumables



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 micro-



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



Tweezers

l amn Retainer

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

Fasten the lamp retainer with 2 screws. Slide the motor cover straight back on the micromotor

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.
- * If the device has not been used for some time, perform the regular inspection by the user.

■ Regular inspection items

Inspection Item	Check Point
Micromotor Connection	Check that the tube connection ring for the micromotor is not loose.
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.
	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.
	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.
	The LED lamp turns on. (Only for models with light capability.)
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.
	Micromotor Connection Handpiece Connection Micromotor Rotation and Spray

Symbols

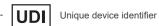
* Some symbols may not be used.



CE(0197) marking Conforms with the Europe-an Directive, 93/42/EEC. CE marking

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

EU Authorized Represen-EC REP ative under the European Directive 93/42/EEC





Serial number



Authorized representative in Switzerland



Medical device





Refer to instructions for



WEEE directive marking



Type B applied part

Supports Washer-Disin-

GS1 DataMatrix



135**℃**

Temperature limitation

Autoclavable up to

+135°C (+275°F)



Humidity limitation



Atmospheric pressure limitation.

fectors



Keep away from rain



Date of manufacture



This way up Manufacturer

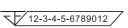


Packaging unit

Importer

Model and/or type number

Consult instructions for



Registration number of medical device in Thailand

(The 12-digit sample number shown is for demonstration purposes only.)



(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 rele-