



Dental Handpiece Maintenance Unit

**Lubrina**

# Operation Instructions

Thank you for purchasing the Lubrina, a dental handpiece maintenance unit.

The Lubrina lubricates and internally cleans dental handpieces easily and effectively.

For optimum safety and performance, read this manual thoroughly before using the unit and pay close attention to the warnings and notes.

Keep this manual in a handy place for ready reference.

Manufactured by **J. MORITA MFG. CORP.**



# CONTENTS

	Page
PREVENT ACCIDENTS .....	2
ATTENTION .....	3
1. Warnings, Prohibitions, and Notes.....	4
2. Specifications.....	6
3. Parts Identification.....	8
4. Setup .....	11
5. Operation .....	16
6. Maintenance and Replacement Parts .....	25
7. Maintenance and Inspection .....	30
8. Troubleshooting.....	31
9. Service Contacts .....	33

## ATTENTION CUSTOMERS

Do not fail to receive clear instructions concerning the various ways to use this equipment as described in this accompanying Operator's Manual.

Fill out and sign the warranty and give a copy to the dealer from whom you purchased the equipment.

## ATTENTION DEALERS

Do not fail to give clear instructions concerning the various ways to use this equipment as described in this accompanying Operator's Manual.

After instructing the customer in the operation of the equipment, have the customer fill out and sign the warranty. Then fill in your own section of the warranty and give a copy to the customer. Do not fail to send the manufacturer's copy to J. Morita regional office.

## PREVENT ACCIDENTS

Most operation and maintenance problems result from insufficient attention being paid to basic safety precautions and not being able to foresee the possibilities of accidents. Problems and accidents are best avoided by foreseeing the possibility of danger and operating the unit in accordance with the manufacturer's recommendations. First thoroughly read all precautions and instructions pertaining to safety and accident prevention; then, operate the equipment with the utmost caution to prevent either damaging the equipment itself or causing bodily injury.

Note the meaning of the following symbols and expressions:

- |  |  |
|--|--|
|  <b>WARNING</b>     | This warns the user of danger of death, serious bodily injury or total equipment damage and failure or fire. |
|  <b>PROHIBITION</b> | This identifies methods which must not be used or purposes which the instrument is not suited for.           |
|  <b>NOTE</b>        | This alerts the user to the risk of light to medium injury or equipment damage.                              |
| <b>Usage Note</b>  | This alerts the user of important points concerning operation.   |

The user (i.e., clinic, hospital etc.) is responsible for the management, maintenance and use of medical devices.

Also this equipment must not be used by anyone except legally qualified dentist or doctors.

**Do not use this equipment for anything other than its specified dental treatment purpose.**

**Caution: Federal law restricts this device to sale by or on the order of a dentist (for U.S.A.).**

## ATTENTION

The J. Morita Mfg. Corp. will not be responsible for accidents, instrument damage, or bodily injury resulting from

1. repairs made by personnel not authorized by the J. Morita Mfg. Corp.
2. any changes, modifications, or alterations of its products
3. the use of products or instrument made by other manufacturers, except for those procured by the J. Morita Mfg. Corp.
4. maintenance or repairs using parts or components other than those specified by the J. Morita Mfg. Corp. and other than in their original condition
5. operating the instrument 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. fires, earthquakes, floods, lightning, natural disasters, or acts of God

The J. Morita Mfg. Corp. will supply replacement parts and be able to repair the product for a period of 10 years after the manufacture of the product has been discontinued.

## 1. Warnings, Prohibitions, and Notes

### WARNING

- *Explosion Hazard. Do not use near open flames or other ignition sources. (Page 11.)*
- *Only use sprays specified by J. Morita. (Page 11.)*
- *Health Hazard. The area must be well ventilated. Breathing fumes could damage your health. (Page 11.)*
- *The equipment must be properly grounded. (Page 11.)*
- *Make sure the ground is properly connected. (Page 12.)*
- *To prevent the spread of grave, life-threatening diseases like HIV and hepatitis B, autoclave handpieces after performing regular maintenance using the Lubrina. (Page 16.)*
- *Avoid the risks of electrical shock, equipment damage and fire during an electrical storm: Turn the Lubrina off and do not touch it or its cord. (Page 17.)*
- *Wear surgical gloves, mask and protective eyewear to operate and clean the Lubrina. (Pages 17 & 25.)*

### PROHIBITIONS

- *The Lubrina cannot be used for air bearing handpieces (Astron series).*
- *Electromagnetic wave interference caused by cellular phones, transceivers, remote controls and similar transmission devices could cause the equipment to operate randomly. All devices which transmit electromagnetic waves located near the work area should be turned off.*

### NOTE

- *Set the unit on a level and stable surface. (Page 11.)*
- *Depending on the type of handpiece and coupling, there could be a release of oil mist. In this case, lower the pressure to 0.3 MPa. (Pages 12 and 19.)*
- *Oil will leak or spray out if the cans are not properly installed. (Page 14.)*
- *Make sure the head is flat against the nozzle guide. If it is tilted, the nozzle might be bent or oil might spray out. (Page 18.)*
- *Oil will spray out of the nozzle if the handpiece is removed too soon (before the beep). (Page 18.)*
- *For some handpieces, an oil mist may be released if a burr is not inserted. (Page 19.)*
- *Do not damage the o-ring on the coupling when attaching a handpiece. This could result in oil spraying out or poor performance. (Page 19.)*
- *Do not select a coupling that does not have a handpiece attached to it. This would result in oil spraying out when the Start Switch is pressed. (Page 20.)*
- *Take care not to cut your fingers on the front door or other parts when taking handpieces out. (Page 21.)*
- *Do not fail to turn off the main switch after use. (Page 21.)*

**⚠ NOTE**

- *If the unit will not be used for a while, unplug it and close the main air valve. (Page 21.)*
- *For handpieces not made by J. Morita, do not fail to use the correct Lubrina coupling or the coupling for the main tube.  
Do not use couplings made for maintenance equipment other than the Lubrina. This could result in release of oil mist or poor handpiece maintenance. (Page 24.)*
- *Take care not to cut your finger on the hardware. (Page 25.)*
- *Take care not to cut your finger on the couplings or other parts. (Page 26.)*
- *Dispose of used oil pads according to regulations for medical waste. (Page 26.)*
- *If the drain valve is opened without releasing the pressure inside the regulator, the water in the drain could spray out into your eyes. (Page 27.)*
- *Dispose of used tray filters according to regulations for medical waste. (Page 28.)*
- *Do not fail to push the tray all the way in. Otherwise, oil could leak out or oil mist might be released. (Page 28.)*

## 2. Specifications

Name	Lubrina
Model	HIM-1
Type	US
Rating	AC 100-240 V 50/60 Hz
Power Consumption	18 VA
Fuse	250 V 2A Slow Blow Type
Air Pressure	0.3~0.5 MPa
Recommended Air Pressure	0.35 MPa
Air Flow Rate	40~60 NL/ min
Weight	Approx. 10 kg
Size (including regulator)	Width 300 × Height 370 × Depth 300 mm

### **Product Description**

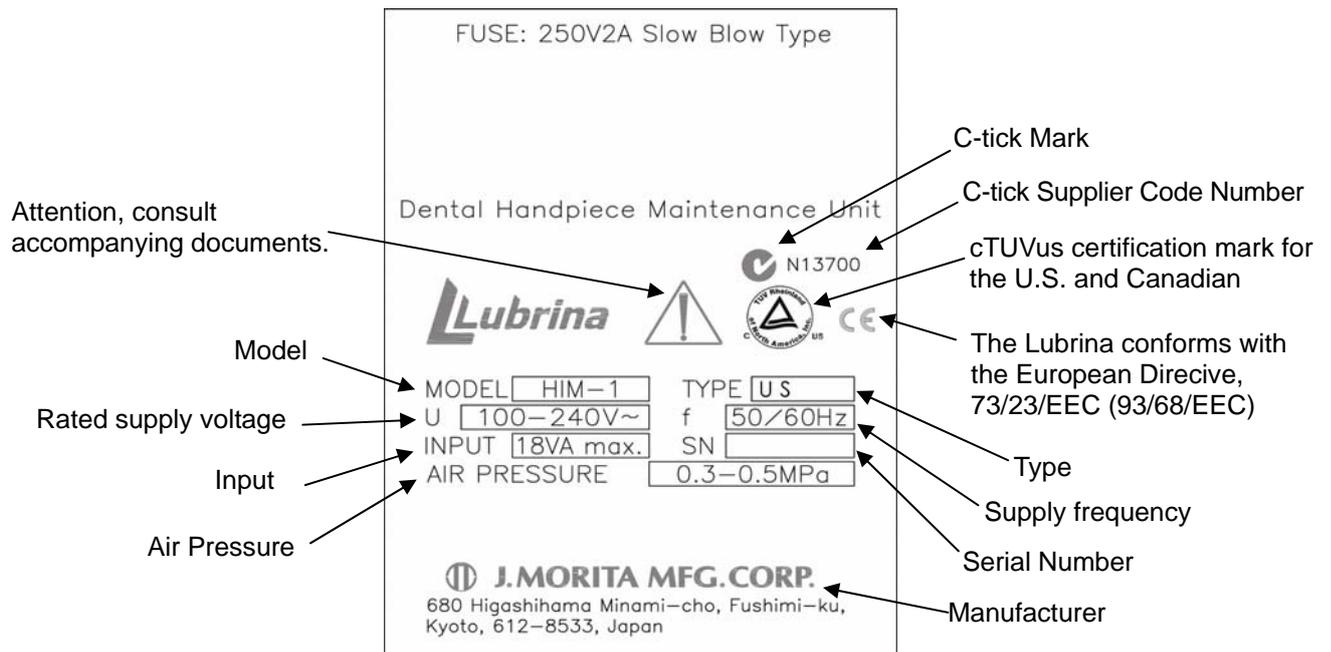
Used to maintain optimum performance and prolong working life of dental handpieces.  
Delivers oil and air automatically to handpiece.  
Used after dental treatment and before autoclaving.

### **Disposal**

The package should be recycled. Metal parts of the equipment are disposed as scrap metal. Synthetic materials, electrical components, and printed circuit boards are disposed as electrical scrap. Material must be disposed according to the relevant national legal regulations. Consult specialized disposal companies for this purpose. Please inquire of the local city / community administrations concerning local disposal companies.

# Meaning of the Symbols

## Label



The Lubrina conforms with the European Directive, 73/23/EEC (93/68/EEC)



Attention, consult accompany documents

**SN**

Serial Number

**U**

Rated supply voltage

**I**

Rated input amperes

**f**

Supply frequency



Alternating current



C-tick Mark

**N13700**

C-tick Supplier Code Number



cTUVus certification mark for the U.S. and Canadian

## Main Switch

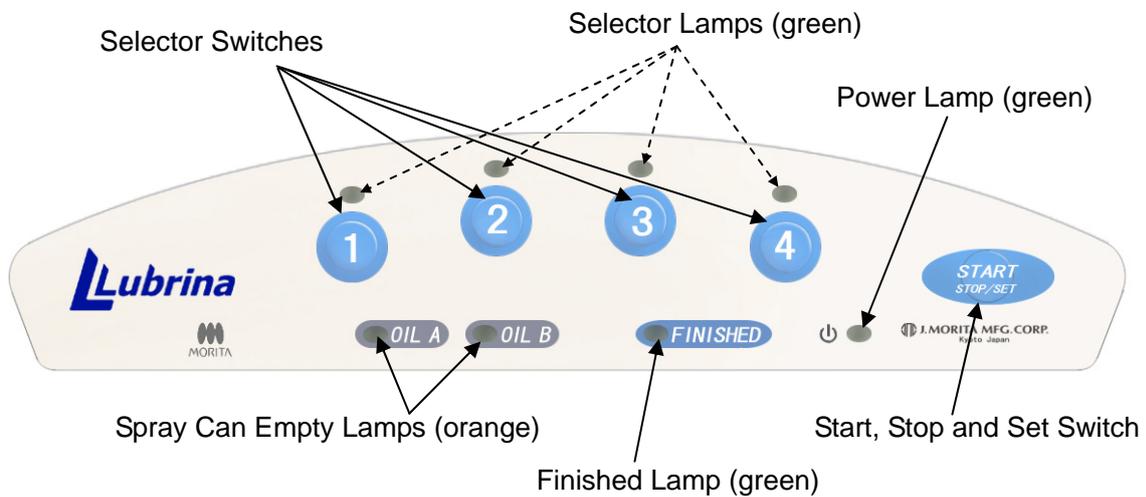
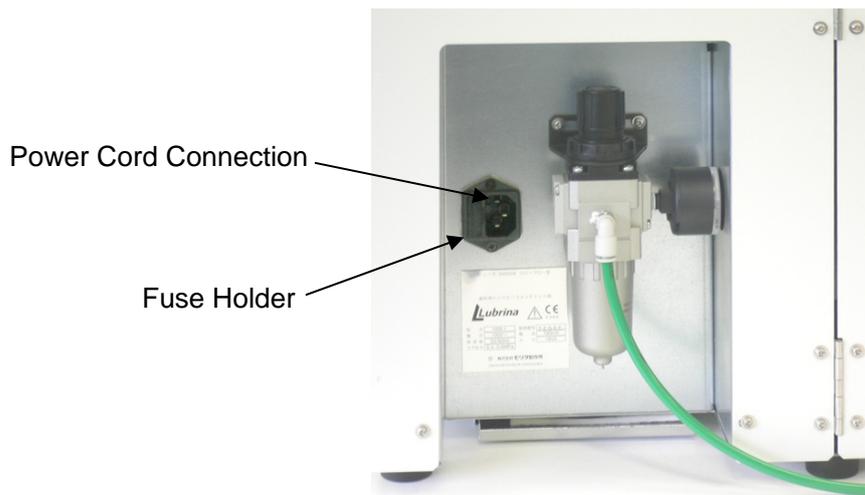
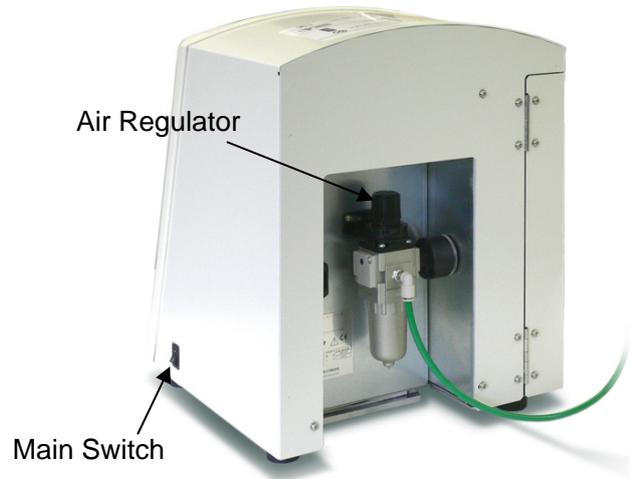


OFF



ON

### 3. Parts Identification



**警告 WARNING**



- 火気の近くや高温になる場所に設置しないでください。
  - Spray cans will explode if they get too hot.  
Do not use this device near an open flame or in a spot where it might heat up.
  - 当社指定のスプレーを必ず使用してください。
  - Use only the sprays approved by J. Morita Corp.
- ※引火、爆発のおそれがあります。  
※PREVENT EXPLOSION AND IGNITION OF SPRAY CANS!



- 十分な換気を行いながら使用してください。
  - Ventilate the room while using the Lubrina.
- ※健康被害のおそれがあります。  
※BREATHING CONTAMINATED AIR IS HARMFUL.



- ご使用前に必ず取扱説明書をお読みいただき、正しくお使いください。
- Read the user's manual and follow the instructions carefully.



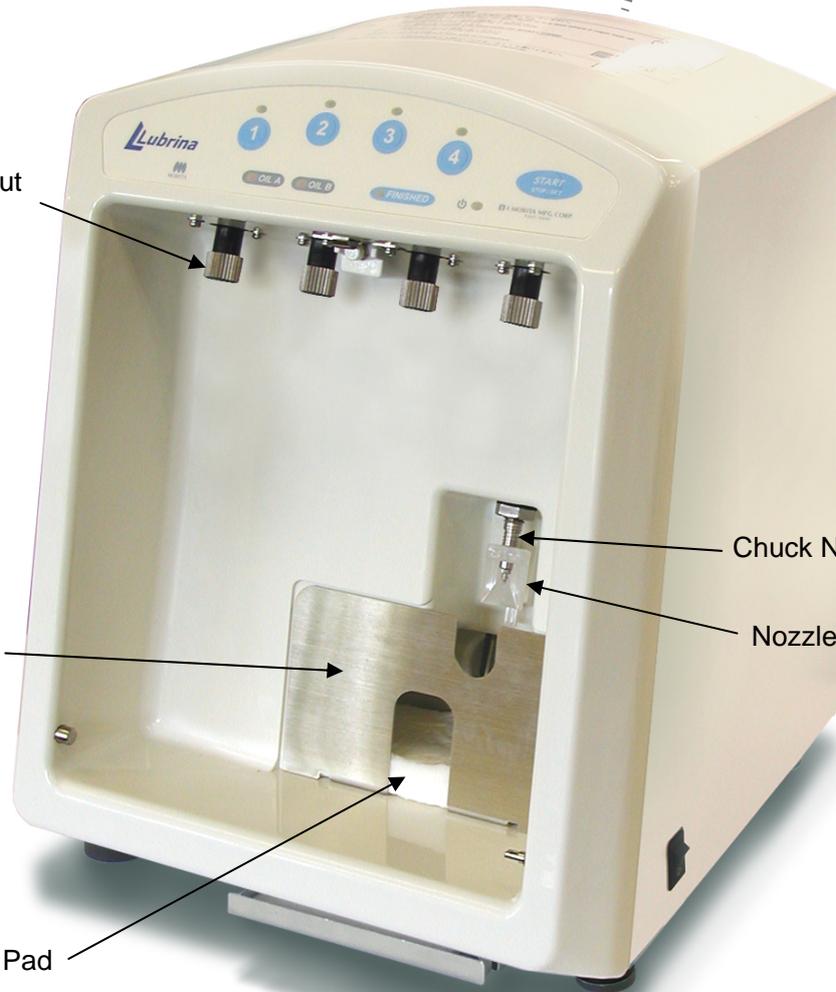
Connection Nut

Oil Case

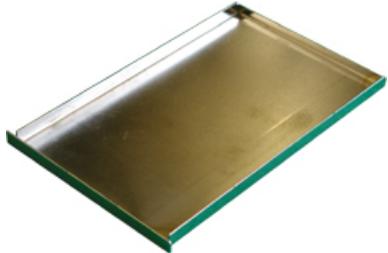
Oil Pad

Chuck Nozzle

Nozzle Guide



## Components

<p><b>Main Unit</b></p> 	<p><b>Oil Absorption Pads (5)</b> CODE No.6812612</p> 	<p><b>Oil Absorption Case (1)</b> CODE No.6812631</p> 
<p><b>Power Cord (1)</b> CODE No.6812657</p> 	<p><b>Tray Filter (1)</b> CODE No.6812614</p> 	<p><b>Tray (1)</b> CODE No.6812632</p> 
<p><b>Air Tube (1)</b> CODE No.5890917</p> 	<p><b>AR Spray Can Stand*</b> CODE No.6812610</p> 	<p><b>AR Spray*</b> CODE No.5010212</p> 

\* Unless otherwise requested at the time of purchase, Lubrina comes standard with 2 cans of AR Spray and 2 AR Spray Can Stands.  
Additional stands are available that offer compatibility with other brands of lubrication spray.

## 4. Setup

\* Transport and Storage Conditions:

Ambient temperature: -10° ~ 50°C (14-122°F).

Relative Humidity: 10% ~ 80% (without condensation).

Atmospheric pressure: 500 ~ 1,060 hPa.

No direct sunlight.

- \* Concerning types of couplings, sprays for various instruments (see below) and spray can stands contact your local dealer or the J. Morita regional office.

### Sprays Specified by J. Morita for Various Companies

- AR Spray ; 420ml (J. Morita)
- KaVo Spray ; 500ml (Kavo) \*1
- Service Oil F1 ; 400ml (W&H) \*2
- T1 Spray ; 250ml (Sirona) \*3
- PANA Spray ; 480ml (NSK) \*4
- Lubrifluid Spray ; 500ml (BIEN-AIR) \*5

\*1 : KaVo is a registered trademark of Kaltenbach & Voigt GmbH.

\*2 : W&H is a registered trademark of W & H Dentalwerk Bürmoos GmbH.

\*3 : Sirona is a registered trademark of Sirona Dental Systems GmbH.

\*4 : NSK is a registered trademark of NAKANISHI INC.

\*5 : Bien-Air is a registered trademark of Bien-Air Holding SA.

### **WARNING**

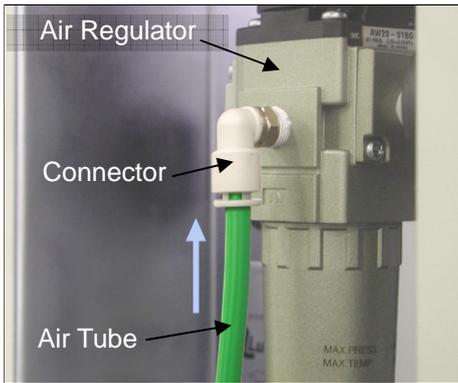
- ***Explosion Hazard. Do not use near open flames or other ignition sources.***
- ***Only use sprays specified by J. Morita.***
- ***Health Hazard. The area must be well ventilated. Breathing fumes could damage your health.***
- ***The equipment must be properly grounded.***

### **NOTE**

***Set the unit on a level and stable surface.***

### **Usage Note**

- ◆ **Leave at least 5 cm (2 in) of free, open space around the unit.**

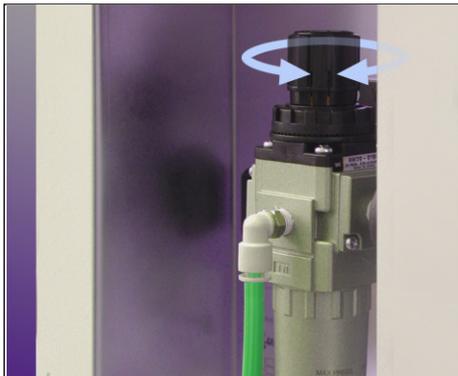


### (1) Air Connection

1. Connect the green air tube provided to the air regulator and the main air supply.  
Open the valve for the main air supply.

#### Usage Note

- ◆ The main air supply must be clean and oil-free.
- ◆ Make sure the tube is securely connected.



2. Set the air regulator dial between 0.3 and 0.5 MPa.

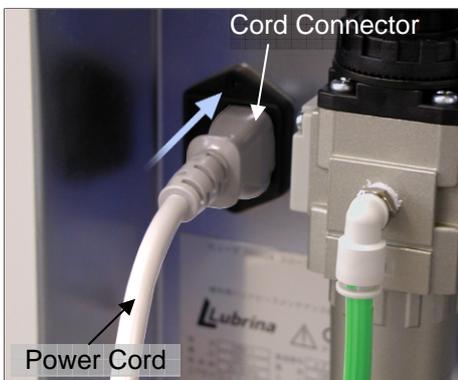
\* Recommended Air Pressure is 0.35 MPa.

#### Usage Note

- ◆ Less than 0.3 MPa will result in poor performance.
- ◆ More than 0.5 MPa could result in damage.

#### ⚠ NOTE

*Depending on the type of handpiece and coupling, there could be a release of oil mist. In this case, lower the pressure to 0.3 MPa.*

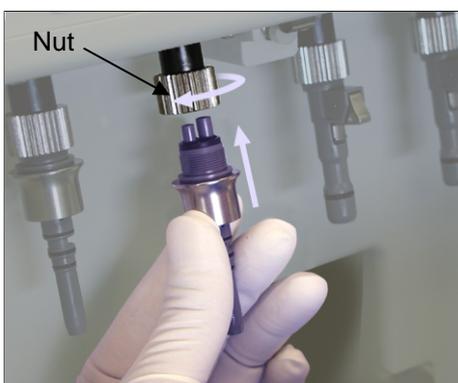


### (2) Power Cord

Connect one end of the power cord to the main unit and plug the other end into a standard receptacle.

#### ⚠ WARNING

*Make sure the ground is properly connected.*



### (3) Coupling

Fit the coupling onto the nozzle and tighten up its nut.

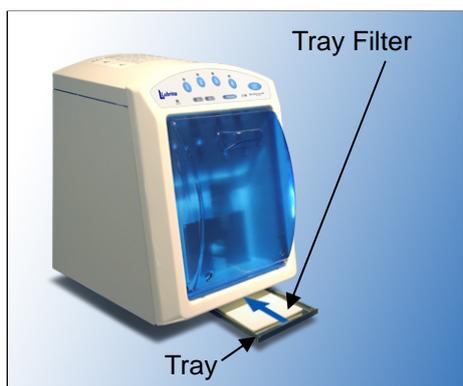
#### Usage Note

- ◆ Make sure the nut is properly tightened. Otherwise oil and air will escape and the maintenance will not be properly performed.



#### (4) Oil Pad

Put an oil pad in its case and install the case.



#### (5) Tray

Put a filter in the tray and slide it into place.

#### **Usage Note**

- ◆ Slide the tray all the way in; otherwise, a film of oil will be deposited on the unit.



#### (6) Spray Cans

#### **Usage Note**

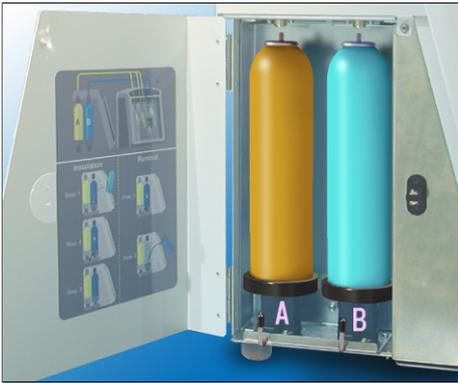
- ◆ Do not use AC Cleaner which is for air bearing handpieces only. It could damage both the Lubrina and the handpiece.

1. Open the side door.

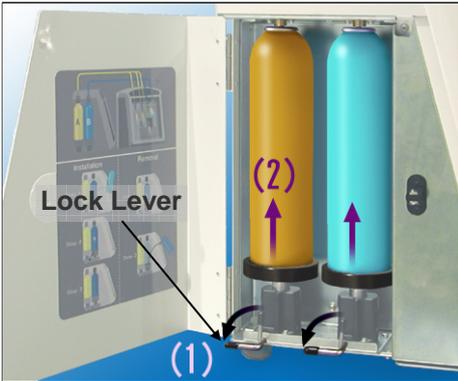
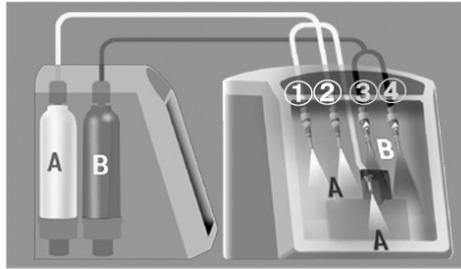
Press the spot indicated in the photo to open the door.



2. Set the stands for the cans in place as shown in the photo.



- Can A is for the chuck lubrication and handpiece nozzles 1 and 2. Can B is for nozzles 3 and 4.



- Push the lock levers down to a horizontal position to secure the cans.

**⚠ NOTE**

*Oil will leak or spray out if the cans are not properly installed.*

**Usage Note**

- ◆ Make sure the lock levers are all the way down. Otherwise, the oil will not come out. (The Empty Lamp will start blinking.)
- ◆ Pull and push the cans to make sure they are secure and do not wobble.



- Close the side door.

## (7) Spray Can Removal

1. Pull the lock lever straight up to lower the stand.



2. Take the spray can out.

If the can's nozzle is stuck in place, simply pull the can down slightly and take it out.



## 5. Operation

### Handpiece Autoclave Sterilization

#### **⚠ WARNING**

*To prevent the spread of grave, life-threatening diseases like HIV and hepatitis B, autoclave handpieces after performing regular maintenance using the Lubrina.*

<Take Off>

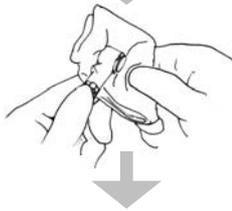


Take the handpiece off its tube.  
(Remove the burr as well.)

<Clean>



Clean the head with a brush and running water.



Wipe the handpiece with gauze dampened with Ethanol for Disinfection (Ethanol 80 vol%).

#### **Lubrina Procedure**

<Clean and Lubricate>



Perform chuck lubrication for Morita ball bearing handpieces.

Those are as follows:

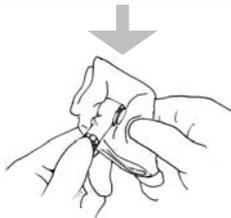
PAR-4H (K043498)

PAR-DI (K043498)

PAR-4HX (K061701)

PAR-4HEX (K061701)

Perform the lubrication procedure.



Remove excess oil by wiping with Ethanol for Disinfection (Ethanol 80 vol%).

<Autoclave>

Autoclave in a sterilization pouch.

#### **Usage Note**

- ◆ Some oil may remain inside the handpiece even after autoclaving. Refer to the user instructions for each handpiece for proper storage. (Storing the handpiece in an upright position is recommended.)

- \* Operation Conditions  
 Ambient temperature: 10~40°C (50-104°F);  
 Relative humidity: 30~75% (without condensation);  
 Atmospheric pressure: 700~1,060hPa

- \* If the Lubrina hasn't been used for a while, make sure it operates properly and safely before using it.

**⚠ WARNING**

- *Avoid the risks of electrical shock, equipment damage and fire during an electrical storm: Turn the Lubrina off and do not touch it or its cord.*
- *Wear surgical gloves, mask and protective eyewear to operate and clean the Lubrina.*

<Setup>

- Carefully clean off the outside of the handpiece before performing maintenance.
- Remove the burr.

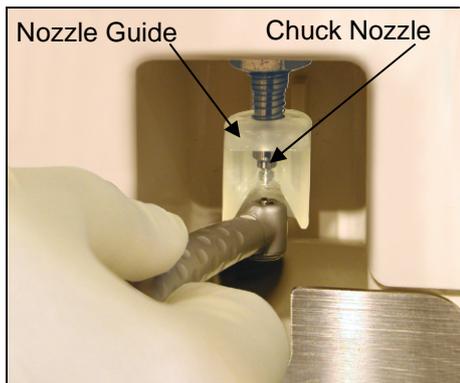
**Chuck Cleaning and Lubrication**



Turn the main switch on.  
 (Green power lamp lights up.)



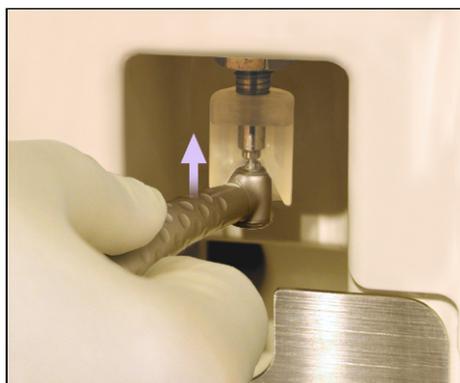
Open the front door.



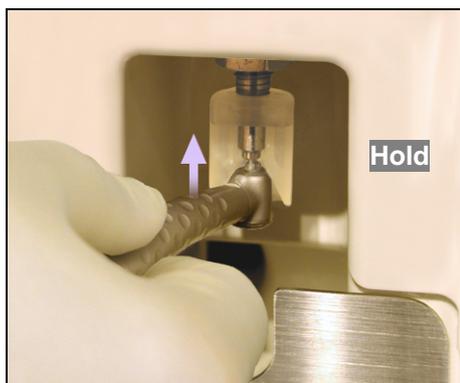
Line up the front end of the head with the nozzle guide and set the chuck in place.

**⚠ NOTE**

*Make sure the head is flat against the nozzle guide. If it is tilted, the nozzle might be bent or oil might spray out.*



Lift the handpiece up slightly to begin cleaning and lubricating the chuck.



Hold it in place for about 5 seconds.  
A beep sounds when the procedure is finished.

\* A series of beeps signals an error. In this case, try again.

**⚠ NOTE**

*Oil will spray out of the nozzle if the handpiece is removed too soon (before the beep).*

**Usage Note**

- ◆ Chuck cleaning and lubrication is only for Morita handpieces.
- ◆ If the nozzle guide comes off, line up the tab on it with the groove and slide it back on.



## Handpiece Maintenance



Turn on the main switch.  
(Green power lamp lights up.)

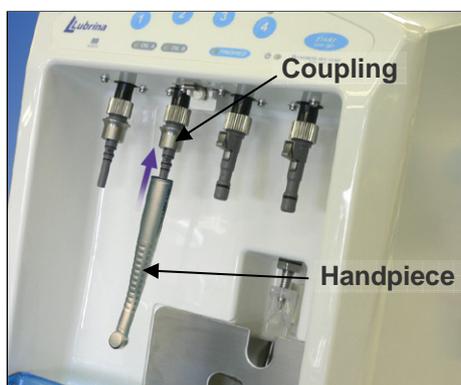


Open the front door.

\* For micromotor attachments (straight, contra etc.), some should have a burr inserted and some should not. Refer to the user instructions for the micromotor attachments.

### ⚠ NOTE

- *For some handpieces, an oil mist may be released if a burr is not inserted.*
- *Depending on the type of handpiece and coupling, there could be a release of oil mist. In this case, lower the pressure to 0.3 MPa.*



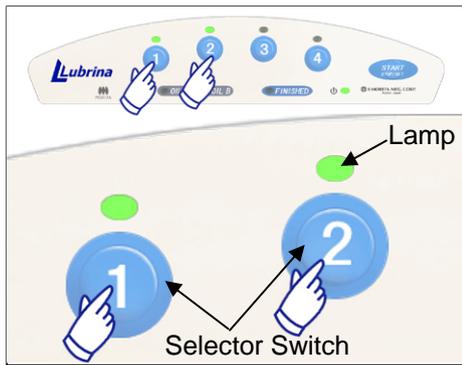
Attach a handpiece to its coupling with the chuck facing back.  
(See photo.)  
Spray can A is for nozzles 1 and 2. Spray can B is for 3 and 4.

### ⚠ NOTE

*Do not damage the o-ring on the coupling when attaching a handpiece.  
This could result in oil spraying out or poor performance.*

### Usage Note

- ◆ *Put the handpiece all the way on until it clicks into place. A handpiece could come off during the maintenance if it is not properly connected.*
- ◆ *If the chuck is facing the front door, the inside of the unit will tend to get dirtier.*



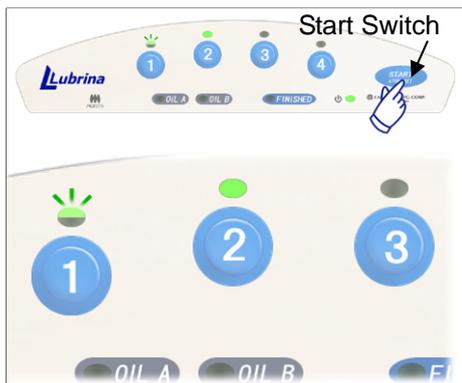
Press the selector switch corresponding to the handpieces which are connected.  
Selector lamps light up.  
(If you press the wrong one, just press it again to turn it off.)



Close the front door.

### Usage Note

- ◆ **The Lubrina will not start if the front door is not closed.**



Press the Start Switch.

The handpiece lamps blink while maintenance is performed.

- \* Press the Start Switch again if the procedure was stopped before finishing.

### ⚠ NOTE

*Do not select a coupling that does not have a handpiece attached to it. This would result in oil spraying out when the Start Switch is pressed.*

### Usage Note

- ◆ **Never remove the spray can during maintenance.**
- ◆ **Opening the front door will immediately stop the maintenance procedure.**
- \* If a can runs out during maintenance, the empty lamp will start flashing, and the procedure will stop. Replace the can and press the Start Switch to repeat the procedure from the beginning.



When the maintenance for all the handpieces is completed, their lamps will go out, a beep will sound and the Finished Lamp will light up.

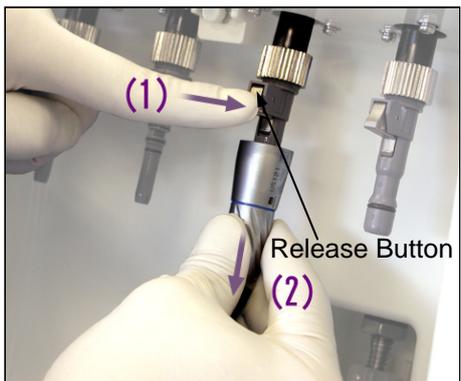


Open the front door and remove the handpieces.

Hold the handpiece with one hand and push up the release ring with the other.  
(for Morita couplings)

**Usage Note**

- ◆ *Use Ethanol for Disinfection (Ethanol 80 vol%) to wipe off excess oil from the handpiece.*



For micromotor attachments, hold the attachment with one hand and press the release button with the other.



Take out the handpieces and close the door.

**⚠ NOTE**

*Take care not to cut your fingers on the front door or other parts.*



Turn the main switch off after use.  
The power lamp will go out.

**⚠ NOTE**

- *Do not fail to turn off the main switch after use.*
- *If the unit will not be used for a while, unplug it and close the main air valve.*

## Change Lubrication Mode (time)

There are three lubrication modes: the short mode (with less oil), the long mode (with more oil), and the long blow-out mode (to remove excess oil more thoroughly).

### **Short Mode (Oil supply time 0.3 sec)**

\* With less oil

The selector switch lamp blinks at 0.3 second intervals.

Lubrication time for one handpiece is about 25 seconds.

### **Long Mode (Oil supply time 1.0 sec)**

\* With more oil

The selector switch lamp blinks at 1.0 second intervals.

Lubrication time for one handpiece is about 25 seconds.

### **Long Blow-out Mode (Oil supply time 0.3 sec)**

\* To remove excess oil more thoroughly

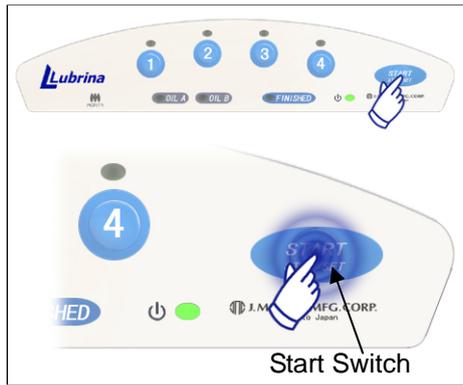
The selector switch lamp blinks at 2.0 second intervals.

Lubrication time for one handpiece is about 120 seconds.

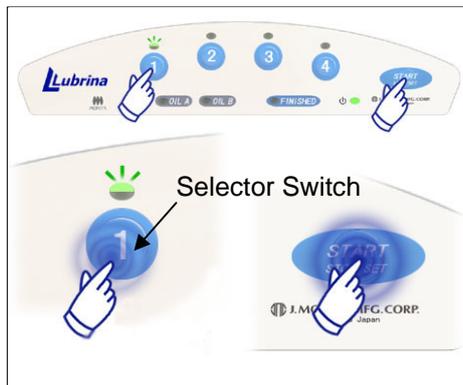
This mode blows out excess oil for a longer time after the short mode completes the oiling procedure.

## **Usage Note**

◆ **The long mode setting will supply too much oil and it will spray out of the head.**



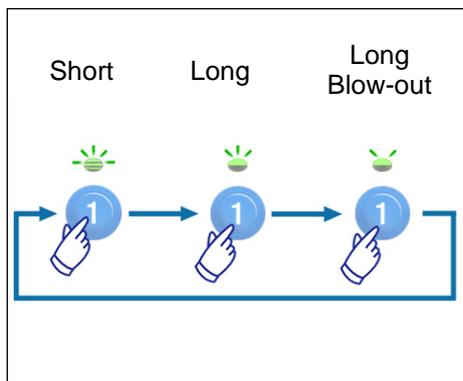
1. Turn the main switch on.



2. Hold down the Start Switch (Start / Stop / Set Switch) and then hold down a Selector Switch for 2 seconds.

Release it when a beep sounds.

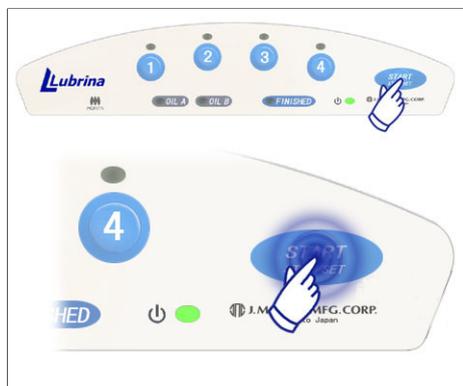
The Selector Lamp will blink to show that you can now change its setting.



3. Now press the Selector Switch to change modes.

Each press of the Selector Switch will change the modes in sequence.

\* The lamp's blinking rate will change.



4. Check the time setting by how fast the lamp blinks, and then press the Start Switch for 2 seconds.

A double beep signals that the change has been made.

After this the lamp goes out.

#### Usage Note

- ◆ Each Selector Switch must be set separately using the above procedure.

## Coupling Replacement

Loosen the coupling's nut and take the coupling off.



Fit the replacement coupling onto the nozzle and tighten up its nut.

### Usage Note

- ◆ Make sure the nut is securely finger tight. Otherwise oil and air will escape and the maintenance will not be properly performed.
- ◆ Do not tighten the nut with pliers or other tools. This will damage the coupling.

### ⚠ NOTE

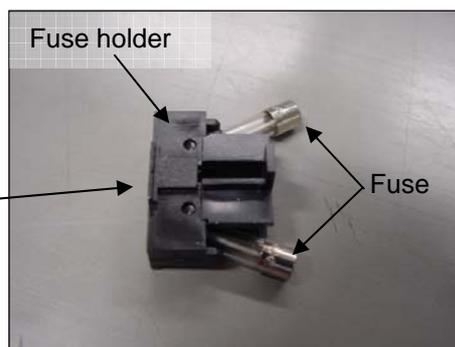
*For handpieces not made by J. Morita, do not fail to use the correct Lubrina coupling or the coupling for the main tube.*

*Do not use couplings made for maintenance equipment other than the Lubrina. This could result in release of oil mist or poor handpiece maintenance.*



## Replacing Fuses

1. The power supply code is detached from the main body.
2. The fuse holder is pulled out.
3. The fuse is exchanged for the new article.  
Fuse: 250V2A Slow-Blow type
4. The fuse holder is inserted.

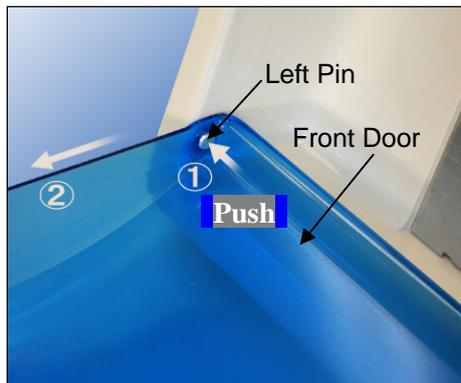


## 6. Maintenance and Replacement Parts

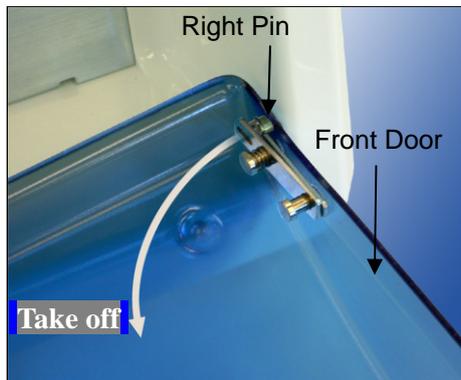
### **⚠ WARNING**

*Wear surgical gloves, mask and protective eyewear to operate and clean the Lubrina.*

### Remove and Clean Front Door



1. Push the pin on the left side in the direction of the arrow in the photo.  
Push the pin all the way in and then pull the door forward.



2. Take the door off the pin on the right side.

### **⚠ NOTE**

*Take care not to cut your finger on the hardware.*

### Usage Note

- ◆ Hold the door securely and pull it off carefully. Excessive force could damage it.
- \* Fit the door back onto the pin on the right side to replace it.



3. After removing the door wash it with water and a neutral detergent or wipe it with Ethanol for Disinfection (Ethanol 80 vol%).

### Usage Note

- ◆ Do not use hot water; this could damage the plastic.
- ◆ Use only soft gauze to wipe the door.



- Clean the main body with a neutral detergent or Ethanol for Disinfection (Ethanol 80 vol%).

**⚠ NOTE**

*Take care not to cut your finger on the couplings or other parts.*

**Usage Note**

- ◆ Do not use disinfectants that contain chlorine-based cleaners or benzalkonium chloride or chlorinated aromatics. These solutions could discolor or damage plastic and corrode metal.

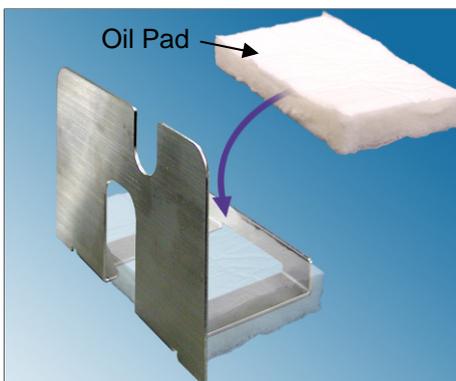
**Oil Pad Replacement**

- \* Inspect the oil pad once a week and replace it before oil reaches the top.

1. Remove the oil pad case.



2. Take the pad out of the case and replace it with a new one.



**⚠ NOTE**

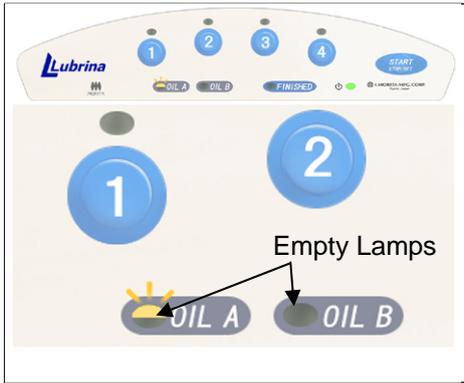
*Dispose of used oil pads according to regulations for medical waste.*

**Usage Note**

- ◆ An oily film will form on the Lubrina if the pad is not replaced.
- ◆ A single oil pad can absorb the oil from about 2 AR Spray cans. However, the Lubrina could start emitting oily mist if the pad is not replaced soon enough.

## Spray Can Replacement

Replace a can if its empty lamp starts to blink.  
(See pages 13 and 14.)



## Empty Drainage from Air Regulator

Empty the drainage from the air regulator about once a month.



1. Turn the dial on the air regulator until the pressure drops to 0.

### ⚠ NOTE

*If the drain valve is opened without releasing the pressure inside the regulator, the water in the drain could spray out into your eyes.*



2. Put a container under the regulator and then press the drain valve.  
The dirty water in the regulator will drain out.





3. After draining the regulator, turn the dial back to adjust the pressure.

### Cleaning the Tray

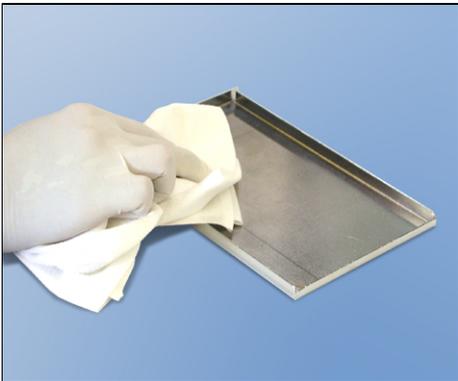
Pull out the tray and clean it with a neutral detergent or Ethanol for Disinfection (Ethanol 80 vol%) about once a month.

#### Usage Note

- ◆ **The tray cannot be autoclaved. Autoclaving will cause it to rust.**
- ◆ **Do not use disinfectants that contain chlorine-based cleaners or benzalkonium chloride or chlorinated aromatics. These solutions will corrode the tray.**
- ◆ **If this tray is not cleaned, oil will overflow from the tray.**



Throw away the old filter and replace it with a new one.



#### ⚠ NOTE

- *Dispose of used filters according to regulations for medical waste.*
- *Do not fail to push the tray all the way in. Otherwise, oil could leak out or oil mist might be released.*

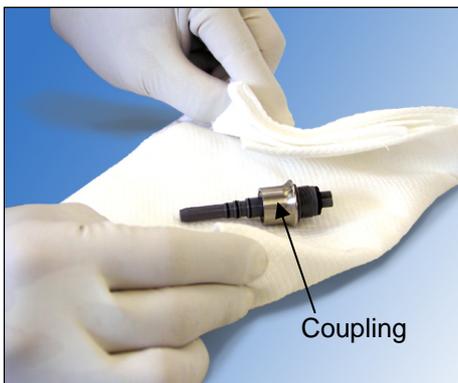
## Cleaning Couplings



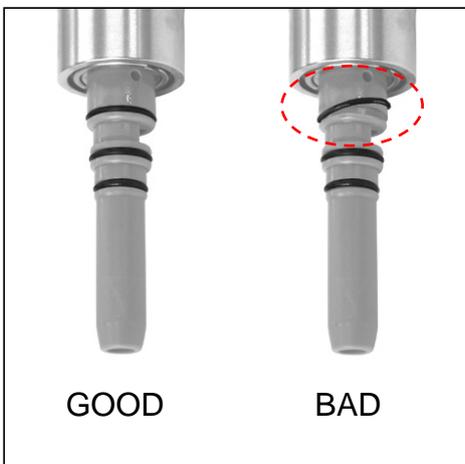
Loosen its nut and take the coupling off. Clean it with Ethanol for Disinfection (Ethanol 80 vol%).

### Usage Note

- ◆ Take care not to damage the o-ring.
- ◆ Couplings cannot be autoclaved. Autoclaving could crack the plastic parts.



\* Refer to page 24 for how to attach couplings.



\* An o-ring could slip out of its groove. Make sure all o-rings are properly seated in their grooves before attaching a handpiece.

### Usage Note

- ◆ Attaching a handpiece when an o-ring is not properly in its groove could cut the o-ring, and, if it gets stuck in the coupling, this will make it hard to put on and take off handpieces.

## 7. Maintenance and Inspection

- \* The user (i.e., clinic, hospital etc.) is responsible for the management, maintenance and use of medical devices.

### Regular Inspection

- \* Maintenance and inspection are generally considered to be the duty and obligation of the user, but if, for some reason, the user is unable to carry out these duties, they may rely on a qualified medical device serviceman. Contact your local dealer or the J. Morita regional office for details.
1. Power Supply Cord  
Inspect visually for wear and broken wires.
  2. Main and Operation Switches  
Turn main switch on and check that main lamp lights up. Check that the unit operates correctly.
  3. Oil Absorption Pad  
Open case and replace oil pad if oil has seeped all the way to its top. (Replace after using 2 cans of spray.)
  4. Drain Air Regulator  
Check and drain air regulator. (once a month)
  5. Tray Filter  
Replace tray filter. (once a month)

### Regularly Required Replacement Parts

Fuse

### Other Replacement Parts

Oil Absorption Pad

Tray Filter

## 8. Troubleshooting

Use the check list below if the apparatus does not seem to be working properly.

- \* Contact your local dealer or J. Morita regional office, if the apparatus does not work normally even after inspection, adjustment or parts replacement, or if the dentist cannot perform maintenance procedures themselves.
- \* Before inspection and adjustment, make sure the power is on.

Problem	Cause	Solution
Main power lamp does not light up.	Power supply cord not properly plugged into supply socket.	Plug in properly.
	Power supply cord not properly plugged into Lubrina.	
Does not start when Start Switch is pressed.  (1) Double beep sounds.  (2) Spray can Empty Lamp is blinking.	Front door may be open.	Close front door.
	Empty can.	Replace can.
	Can is not properly installed.	Properly install the can.
	Compressor air is not connected.	Connect air.
	Air regulator is not set properly.	Set regulator properly.
<ul style="list-style-type: none"> <li>• Unusual odor.</li> <li>• Surfaces are unusually dirty.</li> </ul>	Use without connecting handpiece.	Select only couplings that have a handpiece connected.
	Oil pad is saturated.	Clean Lubrina and replace oil pad.
	Tray filter is saturated.	Clean Lubrina and replace filter.
	Spray can is not properly installed.	Install can properly.
	Air regulator is not set properly.	Set regulator properly.
<ul style="list-style-type: none"> <li>• Cannot install spray can.</li> <li>• Oil leaks from spray can.</li> </ul>	Bent spray can nozzle pin.	Replace can.
	Wrong stand for spray can.	Use proper stand for can.
	Spray can not specified by J. Morita.	Only use sprays specified by J. Morita.

Problem	Cause	Solution
<ul style="list-style-type: none"> <li>• Oil mist is released.</li> <li>• Equipment surfaces get oily.</li> </ul>	Type of handpiece or coupling.	Depending on the type of handpiece and coupling, there could be a release of oil mist. In this case, lower the pressure to 0.3 MPa.
	Air pressure too high.	Reduce air pressure, but not less than 0.3 MPa.
	No burr inserted in straight attachment.	Refer to the user instructions for the handpiece. * For some handpieces, an oil mist may be released if a burr is not inserted.

## 9. Service Contacts

\* For repair or other types of service contact your local dealer or J. Morita regional office.

\* Working-Life

The working-life of this equipment is 5 years from the date of shipment provided it is regularly and properly inspected and maintained.

\* Disposal of Medical Devices

Any medical devices which could possibly be contaminated must be first decontaminated by the responsible doctor or medical institution and then be disposed by an agent licensed and qualified to handle medical and industrial waste.



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