



# Handpiece Lubricating System

LUB909

Operation Manual

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## Dear Customer:

Thank you for choosing Handpiece Lubricating System LUB909. The machine can make easy and safe cleaning and oiling on the Handpiece. Please read carefully the manual for maintenance.

## I Basic Features

1. Ensure the cleansing and oiling of stomatology handpieces .
2. Can serve three handpieces at the same time .
3. The rotation gear of LUB909 can make effective cleaning and oiling for the handpiece in different angles.
4. Press "Air" button after cleaning and oiling to remove residual oil.
5. Short, long or extremely long mode can be selected according to the handpieces.
6. The mist filter cotton can reduce the diffusion of the mist to the smallest extent.

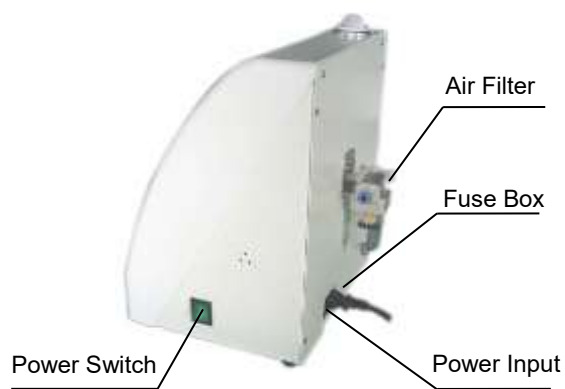
## II Parameters

- 1.Type:LUB909
2. Rated Voltage: AC220V/50Hz, AC110V/60Hz
3. Fuse (220V/240V: F1A ~250V)
4. Air Pressure: 0.35~0.60Mpa (3.5~6.0kgf/cm<sup>2</sup>) (50~80psi)
5. Capacity of Oil Container: 350mL
6. Weight: 8 kg

## III Structure of Handpiece Lubricating System



Pic 1











Pic 2

Accessories

All the products are provided with accessories. Please contact your distributor if any of the accessories is missed as detailed in Table 1.

Table 1

S/N	Pic	Name	Unit	Qty	Remark
1		Power Line	line	1	
2		Maintenance Oil	Kettle	1	
3		Oil Hopper	Piece	1	
4		Mist Filter Cotton	Piece	12	
5		Air Pipe	Line	1	3m
6		O-type Ring	Piece	4	
7		Oil Sorbent Cotton	Pack	1	20 Slices
8		3-ways Connection	Piece	1	

## IV Installation Components

### 1. Rated Fuse

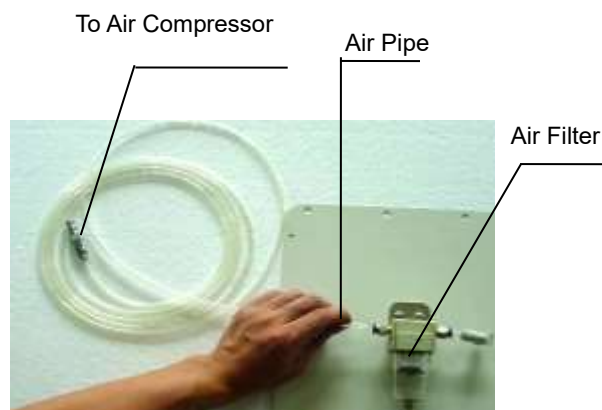
Follow the following Table 2 to check whether the voltage is the same with rated fuse. See 7. (5) Replacement of fuse in "Maintenance" (Pic 19 to 21) to check the rated value of the fuse.

Table 2

Voltage	Rated Fuse
220V	F1A 250V

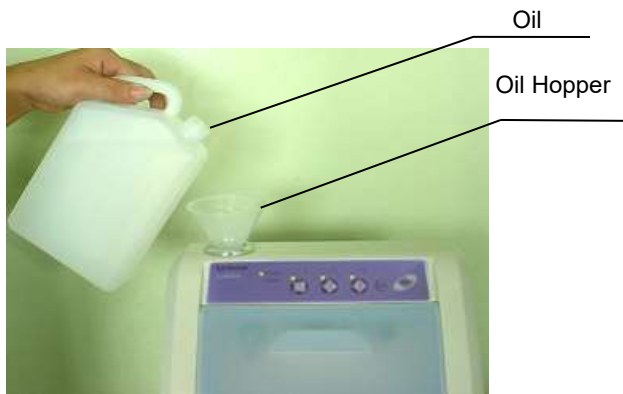
### Connect To Air Compressor

2.Connect the air pipe and put the end of air tube to the quick coupling of the air filter, and the other end connected to air compressor (As shown in Pic 3)



Pic 3

3. Check whether the hopper is clean before inject the oil, place the oiling cap to oiling hopper. Fill the maintenance oil till its "Full". Tighten the oil cap to right position (As shown in Pic 4)



Pic 4

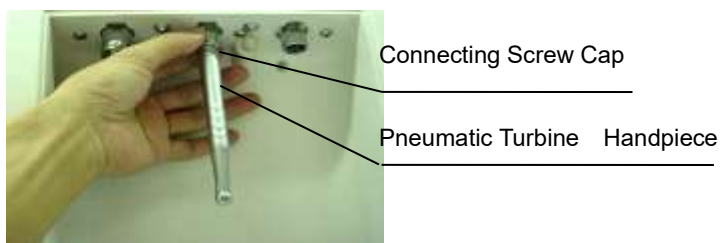
4. Connection of the Power. Insert the power line into the jack at the back of the machine

## V Operation Procedure

1. Installation Method on different kinds of Handpiece .

1) Installation of Pneumatic Turbine Handpiece (According to ISO9168) .

- Remove drilling bit from the handpiece ;
- Open the door cover; install the handpiece to the coupling head and contrarotate the connecting screw cap to be tight. (As shown in Pic 5) ;
- Close the door cover carefully.



Pic 5

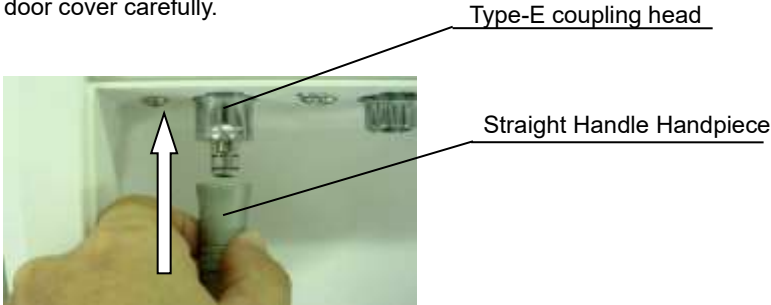
2) Installation of Type-E Handpiece (According to ISO3964)

### **Straight Handle Handpiece**

- Open the door cover, install the handpiece into type-E coupling head till the handpiece and the joint is

locked tight (As shown in Pic 6)

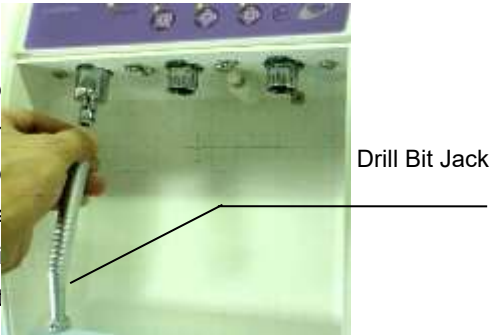
Close the door cover carefully.



Pic 6

**Corner Handle Handpiece**

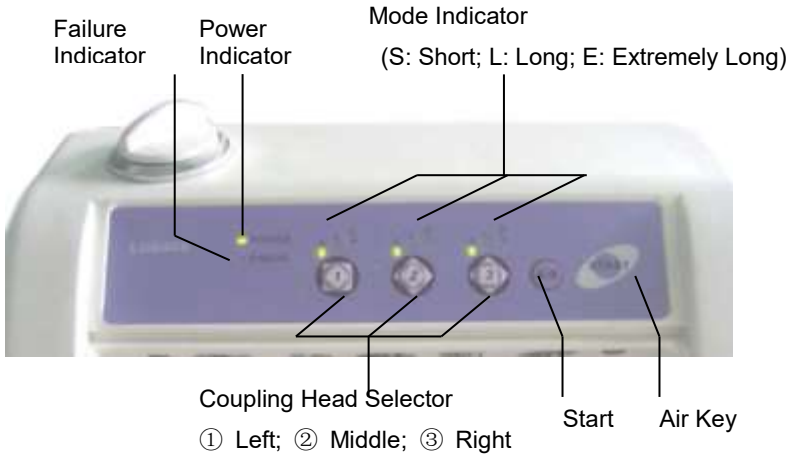
- ① Rem
- handpie
- ② Oper
- handpie
- till the ha
- locked ti
- ③ Posit
- corner handie nanopiece to the door
- cover and close door cover carefully



Pic 7

**2. Operation of Cleaning and Oiling**

1) Connect the power and open power switch, the power indicator lamp is on (As shown in Pic 8)



Pic 8

- 2) Select “1”, “2” or “3” according to the corresponding handpiece installed on the coupling heads. Press once for “S” short mode; press twice for “L” long mode and press thrice for “E” Extremely long mode .
- 3) Select the correct mode for each handpiece if the amount is two or more.
- 4) Press “start” and the machine will start the cleaning and oiling program automatically. Different indicator lamps will shine for different mode during the running of the machine.
- 5) When the cleaning and oiling is finished to the handpiece, the mode indicator will be on and the buzzer will make reminding by alarming.
- 6) Press “Air” Button to blow air from the coupling joint to wipe away the residual oil in the handpiece .

Table 3

Mode	Type of Handpiece	Time for Cleaning &Oiling	Time for Air Blowing
Short Mode	Pneumatic Turbine Handpiece Handpiece with NAKANISHI NM series Handpiece with NAKANISHI SGM series	About 25s	About 60s
Long Mode	Corner Handle Handpiece	About 35s	About 80s
Extremely Long Mode	Handpieces not applicable for short and long modes	About 45s	About 90s

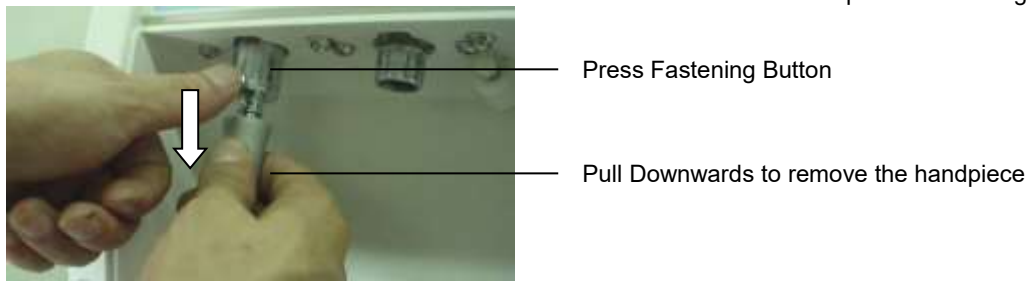
3. Disassembling Procedure of the Handpiece

- 1) The disassembling of Pneumatic Turbine Handpiece is made according to ISO9168 standard. When the mode indicator lamp is on again after the cleaning and oiling is over. Open the door cover and clockwise swing the screw cap as shown in Pic 9.



Pic 9

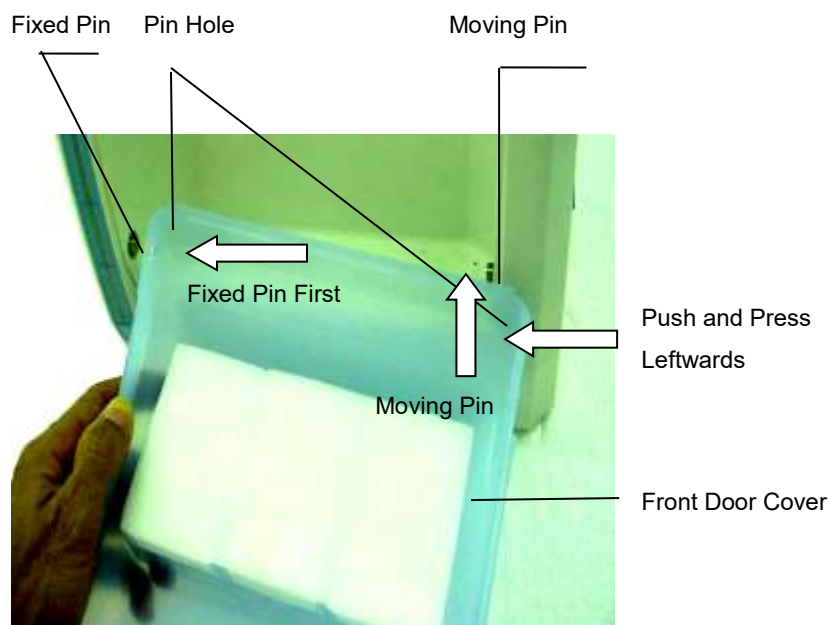
- 2) The disassembling of E-type Handpiece is made according to ISO3964 standard. When the mode indicator lamp is on again after the cleaning and oiling is over. Open the door cover and press down the fasten button as shown in Pic 10 and then pull out the handpiece from the coupling shaft.



Pic 10

## VI Disassembling and Installation of Front Door Cover

First insert the fixed pin to the left pin hole of the front door cover and then press tight the moving pin. When pushing the front door cover from right to left, knot the moving pin into the right pin hole.

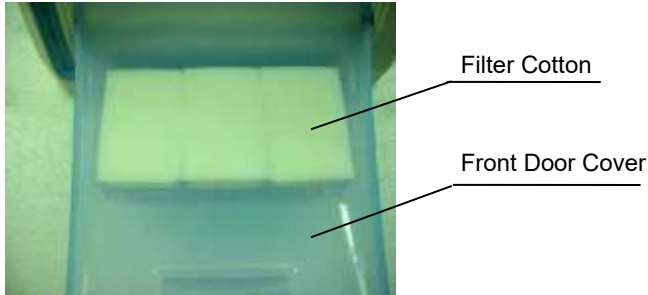


Pic 11

## VII Maintenance

### 1. Replacement of Mist Filter Cotton

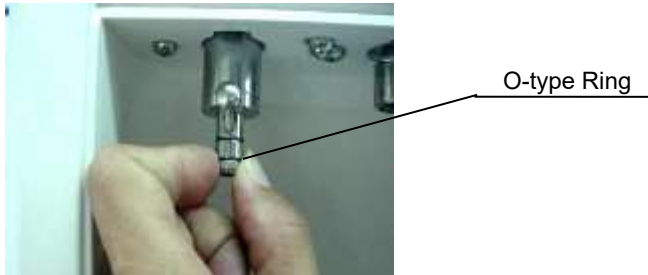
Open the front door cover and take out the filter cotton; then put in new one, as shown in Pic 12.



Pic 12

2. Replacement of O-type Ring

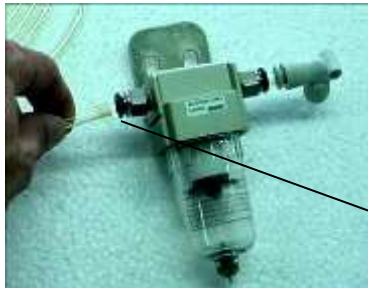
Take the old O-type ring with thumb and put new one in the slot, as shown in Pic 13.



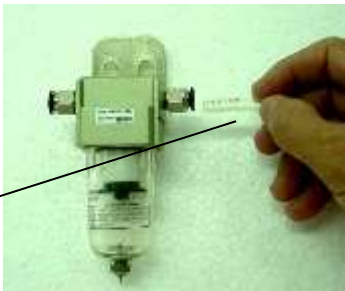
Pic 13

3. Replacement of air filter

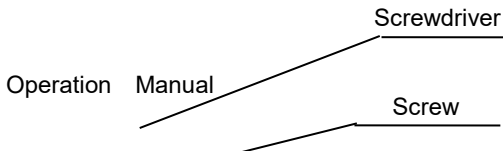
- 1) Take out the air pipe from the quick coupling to the left and right as shown in Pic 14 and 15 .
- 2) Swing the screw with screwdriver and take off the air filter, as shown in Pic 16.
- 3) Make reversal operations to install new filter. Insert the air pipe to the quick coupling as deep as possible.



Pic 14



Pic 15



Air Filter



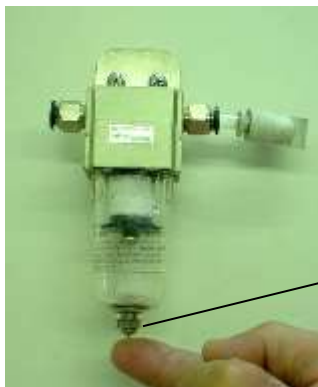
Pic 16

4. Drainage of Air Filter

Press the water drainage button upwards to drain the water, as shown in Pic 17

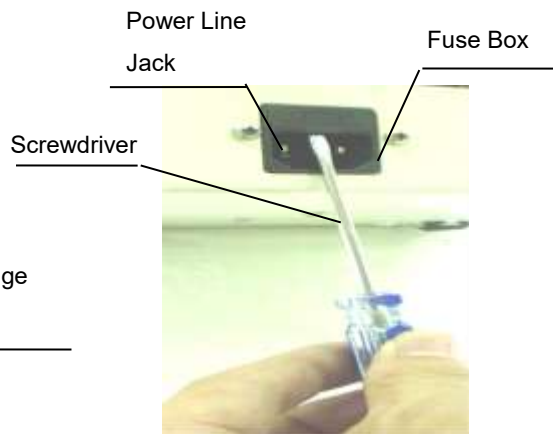
5. Replacement of Fuse

As shown in Pic 18 to 21.



Drainage Button

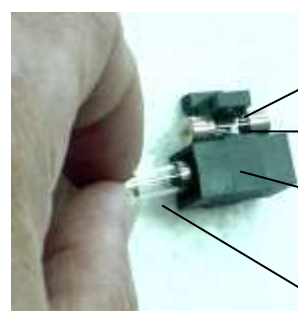
Pic 17



Pic 18



Fuse Box  
Power Line Jack



Rated Value  
Marking of Fuse  
Fuse  
Fuse Box  
Spare Fuse

Pic 20

## VIII Failure Recovery

Check with the following table to determine whether similar circumstance can be found with the failure of the product. If no, contact your distributor for maintenance.

Table 4

Phenomenon	Possible Causes	Solutions
No Power	The power line is not connected with outer circuit	Connect the power line with outer circuit
	The power line is not inserted into the power source joint	Insert the power line i into the power source joint
	Whether the Power switch is on	Turin on power switch
	Whether the fuse is broken	Replace new fuse
The machine can not make cleaning and oiling.	Whether the mode indicator is on	Select the relevant mode button
	Whether the door cover is opened	Open the door cover
	Take out the air pipe; Press the three selection buttons and start bottom to check whether there's any sound during operation	The machine making sounds means the machine is ok. Inspect the air pipe and air source. Contact the distributor if the machine makes no sound
The machine can not make cleaning and oiling effectively	Whether the air pressure is with the designated range	Designated Range: 0.35~0.60Mpa (3.5~6.0kgf/cm <sup>2</sup> )(50~80psi)
	Whether the corresponding mode of the handpiece is selected	Inspection
	Whether the handpiece is properly installed	Inspection
Maintenance Oil Leakage	Whether the mode is selected or not	Inspection
	Whether the drill bit hole of the corner handle handpiece is facing to the door.	Inspection
The failure indicator are shinning	Whether the electric motor is operated\ed.	Inspect whether the front door cover is opened.

## IX Precautions

Please read the following safety regulations before operate the machine.

- Do not install, use, storage and apply maintenance oil to the machine in situations of explosive, directly exposed and the temperature of more than 40 °C (for storage, the humidity should be 25%~70%RH). Keep the machine away from oxidant, flammable substances or chemicals of strong acidity. Keep a distance of 5cm from surrounding when installation. Ventilation should be made immediately on any specious smells detected. Cut off the power source and gas source after use.
- The machine can only be made for cleanings and oiling for the handpiece. The handpiece should be made high-temperature sterilization after being cleaned or oiled.
- Do not touch the power line with damp hands, nor spray water onto the handpiece to avoid personnel hurts or fires.
- Do not disassemble the equipments randomly. If thick smoke and smells of burning resinic is found,

close the power supply and push back the plug immediately and contact the distributor.

5. If the equipment will be left unused for long terms, take out the air pipe and power line and lay the machine on level plain to avoid dropping.
6. Wait for five seconds if oiling cap is needed to be removed in operation or abnormal stopping (e.g. opening door cover) .
7. The air source supplied to the machine (such as air compressor) and air filter should be clean and dry. Make periodically wiping of the damp in the air compressor and air filter because the damp in the cavities will do harm to the machine when mixed with maintenance lubrication oil. Do not bind or bend the air pipe in the air supply.
8. Filter can only be taken away when the air supply is fully stopped or without air pressure. Do not install the filter reversely.
9. Replace new filter cotton after about 50 times of use.
10. Leakage may occur on lubrication residual in the door cover bottom. Collect and wipe away lubrication at the cavity and door with cotton. Dispose the wasted cotton cloth according to the laws and regulations of your country.