

New as of:

01.2016

# **BL motor**

# **BL E motor**

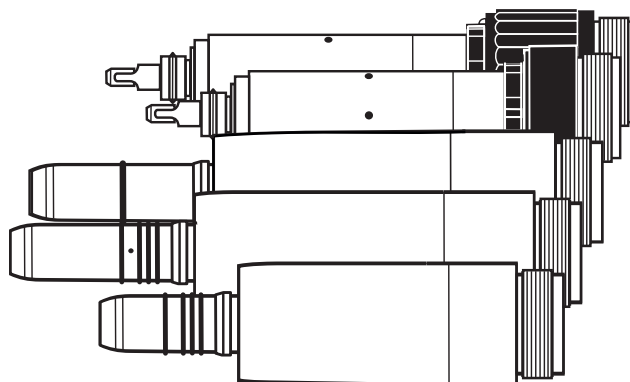
# **BL ISO motor**

# **BL ISO C/E/S motor**

# **BL Implant motor**

Operating Instructions

**English (US)**



# Table of contents

<b>1</b>	Before you begin .....	4
1.1	Structure of the document .....	4
1.1.1	Labeling of information .....	4
1.1.2	Formats and symbols .....	5
1.2	Service life of Sirona instruments .....	5
<b>2</b>	Safety information .....	6
<b>3</b>	Technical description .....	7
3.1	Task .....	7
3.2	BL Motor Construction .....	7
3.3	BL ISO Motor Construction .....	7
3.4	Design of BL ISO C/E/S motor .....	7
3.5	BL Implant Motor Construction .....	7
3.6	Product labeling .....	8
3.7	Technical data .....	8
3.8	Connection Options .....	9
<b>4</b>	Preparation .....	10
4.1	Initial start-up and longer breaks in use .....	10
4.2	Prior to starting the work day .....	10
<b>5</b>	Operation .....	11
5.1	Connect motor to the supply hose .....	11
5.2	Replacing the instrument .....	11
5.3	Adjusting the cooling spray .....	12
<b>6</b>	Follow-up .....	13
6.1	After each treatment session .....	13
6.2	At the end of the work day .....	13
6.3	Once per work week .....	13
<b>7</b>	Conditioning .....	14
7.1	Conduct pre-disinfection .....	14
7.2	Automated cleaning and disinfecting ... ..	14
7.2.1	... with cleaning and disinfection equipment .....	14
7.3	Manual cleaning and disinfection .....	15
7.4	Sterilizing .....	15

<b>8</b>	<b>Maintenance .....</b>	<b>17</b>
8.1	Lubricate the lock washer.....	17
8.2	Replacing lamps and lamp ring (BL motor) .....	17
8.3	Replacing lamps (BL E motor) .....	17
8.4	Replacing lamps and motor sleeves (BL ISO / BL ISO C/E/S motor) .....	18
8.5	Replacing the sealing washer .....	18
8.6	Replacing O-rings.....	19
<b>9</b>	<b>Spare parts and consumables.....</b>	<b>20</b>
<b>10</b>	<b>Storage and transport conditions.....</b>	<b>22</b>
<b>11</b>	<b>Disposal.....</b>	<b>23</b>

# 1 Before you begin ...

The motor complies with the regulations reflecting the current state of technology. The motor complies with the ISO 14457 standard.

1. Read the operating instructions prior to using the BL / BL E / BL ISO / BL ISO C/E/S / BL Implant motor.
2. Use the motor only for applications that are described in the operating instructions.
3. Observe the applicable hygiene standards, work safety regulations and accident prevention measures for the motor.

## Intended Use

The motor drives the straight and contra-angle handpieces in connection with a dental treatment center for endodontic and general purposes.

## Contraindications

None

## Target group

This product is intended only for use by trained dental personnel in dental practices and laboratories.

## 1.1 Structure of the document

### 1.1.1 Labeling of information

## Warnings

- To prevent injuries, please observe all warnings.

Warnings are labeled as follows:

**DANGER!** indicates a danger **leading** to death or serious injury if not avoided.

**WARNING!** indicates a danger that **may lead** to death or serious injury if not avoided.

**CAUTION!** indicates a danger that **may lead** to injury if not avoided.

## Instructions for use

- To prevent material damage and additional expenses, please observe all instructions for use.

Instructions for use are labeled as follows:

**NOTICE!** indicates measures for the prevention of material damage.

**IMPORTANT:** indicates information on the avoidance of additional expenses and other important information.

**Tip:** indicates information for facilitating work.

### 1.1.2 Formats and symbols

The formats and symbols used in this document have the following meaning:

<b>✓</b> Prerequisite <b>1.</b> First action step <b>2.</b> Second action step or <b>&gt;</b> Alternative action <b>↩</b> Result <b>➤</b> Individual action step	Requests you to do something.
Use of formats and symbols [ → 5].	Identifies a reference to another text passage and specifies its page number.
• List	Identifies a list.

## 1.2 Service life of Sirona instruments

When used as intended:

- Non-moving parts of Sirona instruments have a typical service life of approx. 5 years
- Moving parts of Sirona instruments have a typical service life of approx. 3 years

No warranty claim can be inferred here, as wear may occur earlier or later than indicated above depending on use, frequency of sterilization, and frequency of maintenance.

## 2 Safety information

### Obligations of the user

- Use only fault-free materials that do **not** deviate from the specified data [→ 8].
- Protect yourself, patients, and others against any foreseeable dangers. To do this, follow the safety information.
- Comply with the Intended use of the equipment.
- You should always keep these operating instructions within reach for further reference.

### Preventing the spread of infections and cross contamination

Prevent the spread of infections and cross contamination between patients, users, and third parties. Sterilize equipment after each patient.

Take the appropriate hygiene measures, e.g. wear protective gloves.

### Prevention of eye damage

The LED is in risk class 2 according to the IEC 62471:2006 standard. The LED emits optical radiation that is potentially hazardous and may be harmful to the eyes! Potential damage to the retina from the blue light emission. Do not stare at the LED for longer periods of time while in operation.

### Protecting the motor shaft/axis

Do **not** let the motor drop on the floor. A twisted motor shaft on the BL motor and BL E motor causes irregular operating noises or strong vibrations. This can damage instruments.

### Malfunction or damage

Discontinue use immediately in case of malfunction, unusual or different sounds or damage. Damaged motors may cause injury. Notify the dental depot or the manufacturer.

### Potential explosion hazard

Do **not** use this product in areas subject to explosion hazards.

### Repair

Do **not** repair the motor yourself.

### Spare and accessory parts

Use only original Sirona parts or parts approved by Sirona. Safe operation is **not** guaranteed for parts that have not been approved by Sirona.

### First aid measures in the case of lubricant accidents

- General information:** Immediately remove any clothing soiled by the product.
- After inhalation:** Supply fresh air; consult doctor in case of complaints.
- After skin contact:** If skin irritation continues, consult a doctor.
- After eye contact:** Rinse opened eye for several minutes under running water.
- After swallowing:** If symptoms persist consult doctor.

For details download the T1 Material Safety Data Sheet from the Sirona homepage: [www.sirona.com](http://www.sirona.com)

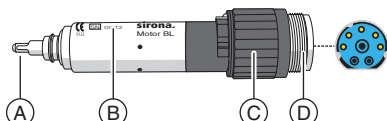
If you have any questions, please contact your dental depot or the manufacturer.

## 3 Technical description

### 3.1 Task

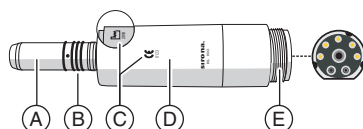
The motor converts electrical energy to rotation and transfers rotation to the instrument.

### 3.2 BL Motor Construction



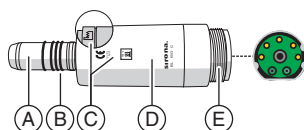
A	Motor shaft including driver
B	Product labeling
C	Control ring/lamp ring
D	Coupling connector (blue/3 guide noses)

### 3.3 BL ISO Motor Construction



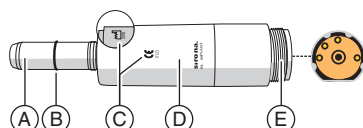
A	Handpiece holder
B	O-ring 8.4 x 0.7
C	Product labeling
D	ISO motor sleeve
E	Coupling connector (black/3 guide noses)

### 3.4 Design of BL ISO C/E/S motor



A	Handpiece holder
B	O-ring 8.4 x 0.7
C	Product labeling
D	ISO C/E/S motor sleeve
E	Coupling connection (green / 3 guide lugs)

### 3.5 BL Implant Motor Construction



A	Handpiece holder
B	O-ring 8 x 1
C	Product labeling
D	Implant motor sleeve
E	Coupling connector (yellow/4 guide noses)

### 3.6 Product labeling

The following product information is lasered on the motor or motor sleeve:

- Product name
- Year of manufacture



- Serial number
- CE marking



### 3.7 Technical data

#### Motor



	BL / BL E	BL ISO	BL ISO S	BL ISO C / E	BL Implant
Length in mm	~ 40	~ 59	~ 45	~ 45	~ 61
Max. diameter in mm	~ 16	~ 22	~ 22	~ 22	~ 22
Max. speed <sup>a</sup> in rpm	~ 40000	~ 40000	~ 40000	~ 40000	~ 40000
Torque <sup>b</sup> in Ncm	~ 2.4	~ 3.0	~ 3.0	~ 3.0	~ 5.0
Limiting current in A, short term	~ 7	~ 7	~ 7	~ 7	~ 7
Max. power in W	~ 45	~ 61	~ 61	~ 61	~ 80
Spray function	x	x	x	x	-
Light function	x	x	x	x	-
Apex measuring function <sup>c</sup>	x	x	-	x	-
Handpiece holder – ISO 3964	-	x	x	x	x

a. For min. speed see the operating instructions for the treatment center

b. For max. torque see the operating instructions for the treatment center

c. Apex measuring function depending on the treatment center and its accessories

#### Adapter for BL motor

	ISO adapter	Basic adapter (APEX)
Light function	x	x
Spray function	x	-
Apex measurement function	-	x
Handpiece holder – ISO 3964	x	x



### Treatment center

	BL motor	BL E motor	BL ISO motor	BL ISO C/E/S motor	BL Implant motor
Lamp voltage in V, at the lamp	~ 3.3	~ 3.3	~ 3.3	-	-
Lamp current in A					
Halogen lamp	~ 1.2	-	~ 1.2	-	-
LED	~ 0.25	~ 0.12	~ 0.15	0.12	-
Cooling air pressure in bar	2.2 - 3	2.2 - 3	2.2 - 3	2.2 - 3	2.2 - 3
Cooling air supply in l/min	20 ±2.5	20 ±2.5	20 ±2.5	20 ±2.5	20 ±2.5
Spray air pressure in bar	2.7 ±0.2	2.7 ±0.2	2.7 ±0.2	2.7 ±0.2	-
Spray air flow in L/min	> 1.5	> 1.5	> 1.5	> 1.5	-
Spray water pressure in bar	2 ±0.2	2 ±0.2	2 ±0.2	2 ±0.2	-
Spray water flow in ml/min	> 100	> 100	> 100	> 100	-
Recommended water content in spray in ml/min	> 50	> 50	> 50	> 50	-

### Operating conditions

Ambient temperature	10°C - 40°C (50°F - 104°F)
Relative humidity in %	30 - 85
Air pressure in hPa	700 - 1060

This product bears the CE mark in accordance with the provisions of the Council Directive 93/42/EEC of June 14, 1993 concerning medical devices (MDD).



## 3.8 Connection Options

The BL motor and the BL E motor were designed for direct operation of T1 CLASSIC instruments. In order to be able to use T1 LINE, T2 LINE, or T3 LINE, for example, an intermediate ISO adapter must be used.

All other motors are equipped with the ISO interface. The BL ISO/ BL ISO C/E/S motor is equipped with the INTRAmatic Lux<sup>®</sup> interface.

## **4 Preparation**

### **4.1 Initial start-up and longer breaks in use**

- Sterilize the motor and accessories prior to startup.
- Clean and maintain the motor after longer breaks in use.

### **4.2 Prior to starting the work day**

- Purge the water and air channels for 30 seconds.

## 5 Operation

**CAUTION!** Do not detach the motor from the supply hose during operation! This may cause injury!

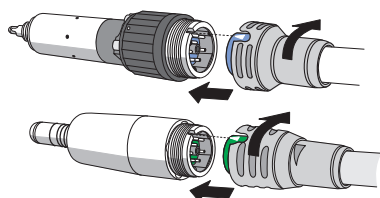
**CAUTION!** Insufficient cooling leads to overheating of the preparation site and damage to the tooth substance. Ensure that the flow rate is > 50 ml/min.

**CAUTION!** If the motor overheats under high load, let it cool off by idling at half speed before continuing treatment.

**NOTICE!** Never operate the motor without cooling air.

**CAUTION!** Potentially hazardous optical radiation may cause harm to the eyes. Do **not** stare at the LED for longer periods of time while in operation.

### 5.1 Connect motor to the supply hose



✓ Colored marks and number of guide noses on motor and hose coupling of the supply hose agree.

1. Slide back the cap nut at the hose coupling.
2. Attach the motor onto the hose coupling up to the stop, observing the contact pins and tubes. Make sure the hose coupling does not tilt.  
 ↳ The arrow on the hose coupling and the notch on the motor must face each other.
3. Press the cap nut gently onto the thread; then turn it counterclockwise until a faint click is heard.
4. Screw the cap nut tightly onto the motor **clockwise**.

Does water leak out between the motor and the hose connection?

1. Detach the motor from the supply hose.
2. Reconnect the motor to the supply hose. Make sure it is connected properly.
3. If water still leaks, replace the sealing washer [→ 18].

### 5.2 Replacing the instrument

**CAUTION!** The instrument should only be fitted or removed when the motor is at standstill.

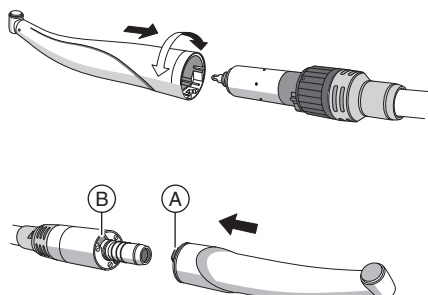
**Attach the instrument / adapter to the BL motor / BL E motor**

**CAUTION!** Do not operate the BL motor with exposed motor shafts and attachments (removed instrument / adapter). This may cause injury!

- ✓ The motor is at a standstill.
- Attach the instrument or adapter. Lock the instrument or adapter into place here by turning.

**Attach instrument to BL ISO/BL ISO C/E/S motor or adapter**

- ✓ The motor is at a standstill.
- 1. Align the nib (A) of the instrument with the groove of the motor.
- 2. Insert the instrument until it snaps into place.



**Attach the instrument to the BL Implant motor**

- ✓ The motor is at a standstill.
- Insert the instrument until it snaps into place.

**Removing instrument/adaptor**

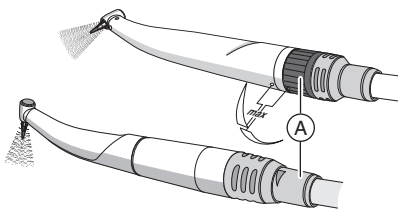
- ✓ The motor is at a standstill.
- Detach the instrument or adaptor. Do not pull on the supply hose while doing this.

## 5.3 Adjusting the cooling spray

**CAUTION!** The BL Implant motor and basic adapter (APEX) do not provide cooling spray. Ensure sufficient cooling of the preparation site via a sterile external media supply, e.g. NaCl.

- Adjust the flow rate of the cooling water using the control ring (A) (> 50 ml/min).

**Tip:** You can measure the amount of cooling water with a measuring cup and watch.

**Water flow rate**

**BL motor:** The maximum water flow is  when the two marks are facing each other.

**BL E/BL ISO/BL ISO C/E/S motor:** The maximum water flow is set when the control ring on the supply hose is turned counterclockwise until it reaches the stop.

## 6 Follow-up

### 6.1 After each treatment session

**NOTICE!** Condition immediately, or at the latest, one hour after treatment.

- ✓ Wear appropriate protective clothing.
- 1. Purge the water and air channels on the treatment center for 30 seconds.
- 2. Remove the instrument.
- 3. Pre-disinfect directly at the treatment center [ → 14].
- 4. Remove the adapter/motor.
- 5. Transport the motor/adapter to the hygiene room in a suitable transport container.
- 6. Conduct automatic conditioning of the adapter [ → 14]. Manual conditioning [ → 15] is possible in exceptional cases if the national/local regulations are followed.
- 7. Conduct manual conditioning of the motor following national/local regulations [ → 15].
- 8. Sterilize the motor, the adapter, and the accessories [ → 15].

### 6.2 At the end of the work day

**NOTICE!** Do not leave any instruments on the motor overnight, in order to prevent oil from leaking into the electric motor. Never lubricate the electric motor.

### 6.3 Once per work week

- ✓ The motor or adapter has been conditioned.
- Lubricate the lock washer [ → 17].

## 7 Conditioning

### 7.1 Conduct pre-disinfection

- ✓ Wear appropriate protective clothing.
- ✓ All disinfectants must be approved in your country and have proven bactericidal, fungicidal and virucidal properties. Only use disinfectants with **no** protein-fixing properties.
- ✓ Use disinfectants and other agents that contain **no** corrosive components such as chloride.
- 1. Spray the surface with disinfectant.
- 2. Wipe the disinfectant off with a cloth.
- ✎ For further conditioning, the motor/adaptor should be dry and free of residue.

In the USA and Canada, for example, you can use:

- CAVICIDE®
- CAVIWIPES™

Please observe the manufacturer's instructions for using instrument disinfectants.

### 7.2 Automated cleaning and disinfecting ...

Apply the following steps for the adapter **only**.

Do **not** clean motors automatically.

#### 7.2.1 ... with cleaning and disinfection equipment

The adapter can also be cleaned and disinfected in suitable cleaning and disinfection equipment.

The cleaning and disinfection equipment used must be approved by its manufacturer for the cleaning and disinfection of dental instruments and comply with EN ISO 15883-1 (e.g. 95°C (203°F) and 10 min. holding time).

For further details, refer to the operating instructions supplied with the unit.

- ✓ The adapter is conditioned with a cleaning and disinfection device.
- 1. Check whether the adapter is clean after conditioning under good lighting (min. 500 lux) and color rendering index (min. 80 Ra).
- 2. If it is still dirty, repeat the process.
  - ✎ For further conditioning, the adapter should be dry and free of residue.
- 3. Pack the adapter in packaging material suitable for sterilization and storage. e.g. paper/plastic composite packaging.
- 4. Sterilize the adapter [ → 15].



## 7.3 Manual cleaning and disinfection

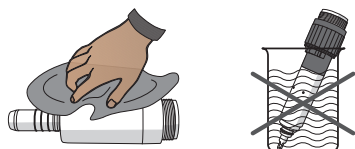
**IMPORTANT:** Manual conditioning is possible in exceptional cases if the national/regional regulations are followed. The national/regional regulations are to be checked before.

**NOTICE!** Condition immediately, or at the latest, one hour after treatment.

**NOTICE! Never** clean in an ultrasound bath!

**NOTICE! Never** immerse in disinfectant solution!

- ✓ Wear appropriate protective clothing.
  - ✓ All disinfectants must be approved in your country and have proven bactericidal, fungicidal and virucidal properties. Only use disinfectants with **no** protein-fixing properties.
  - ✓ Use disinfectants and other agents that contain **no** corrosive components such as chloride.
1. Moisten a clean, lint-free cloth with disinfectant.
  2. Wipe the motor/adaptor with the moist cloth. When doing so, also wipe any hard-to-reach places.
  3. Observe the application time for the disinfectant.
  4. Wipe the motor/adaptor dry.
    - ✚ The motor/adaptor is disinfected and clean.
  5. When the motor/adaptor is dirty, repeat the cleaning process.

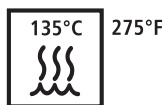


## 7.4 Sterilizing

### Intervals:

- Prior to initial operation
- Prior to every other use

### Process



- ✓ The motor/adaptor is cleaned and disinfected.
- ✓ The motor sleeve is unscrewed from the BL ISO / BL ISO C/E/S motor / BL Implant motor.
- ✓ If necessary, the adapter, motor and motor sleeve can be packed in packaging suitable for sterilization and storage, e.g. paper/plastic composite packaging or container.
- Sterilize the adapter, motor and motor sleeve in the steam sterilizer with saturated water vapor.

Temperature: 135° C (275° F)

Overpressure: 2.13 bar (30.89 psi)

Article	Holding time at 135 °C (275° F)	Drying time
Wrapped instruments	10 minutes	30 minutes
Unpackaged instruments	3 minutes	0 - 1 minute

Gravity displacement steam sterilizers are permitted.

**NOTICE!** Do not exceed 140°C (284°F), even during the drying phase.

**After sterilizing**

1. Remove the adapter, motor and motor sleeve from the steam sterilizer immediately.

**CAUTION!** The adapter, motor and motor sleeve are hot. Risk of burns!

**NOTICE!** Do **not** attempt to accelerate the cooling process by immersing the motor/adapter in cold water. This will damage your motor/adapter!

2. Store all motors/adapters so that they are protected from contamination.
3. Sterilize again once the storage period has elapsed.

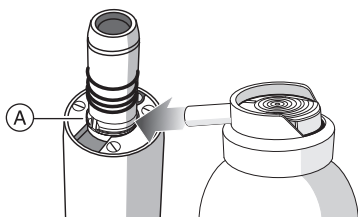
Following regular sterilization, have your motor serviced after approx. 2 years in a facility authorized by Sirona.



## 8 Maintenance

Elastomers, e.g. O-rings, must be replaced depending on their degree of wear.

### 8.1 Lubricate the lock washer



#### Interval

- 1x weekly

#### Procedure

1. Spray some T1 spray on the stop spring ring (A).
2. Turn the stop spring ring to distribute the T1 spray.

### 8.2 Replacing lamps and lamp ring (BL motor)

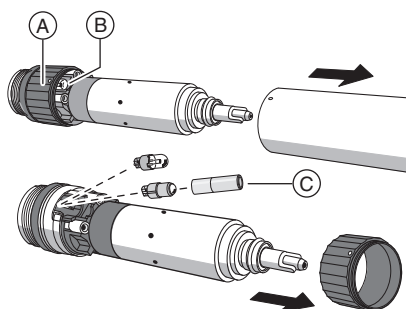
**CAUTION!** The lamp can be hot. Risk of burns! Allow the lamp to cool down.

✓ Use an LED or halogen lamp with a green base [ → 20].

1. Detach the instrument or adapter.
2. Place the marking of lamp ring (A) over the lamp (B).
3. Detach the lamp ring.
4. Remove the defective lamp from the socket.
5. Place the new lamp in sideways. Do **not** slide the lamp in from the front. Ensure the proper position of the contact surfaces.  
**NOTICE!** Pressing on the lens can destroy the LED. Therefore, please use the installation tool (C) to insert the LED.
6. Attach the lamp ring. The marking on the lamp ring must be over the lamp. The marking points toward the instrument/adapter.
7. Check the light function.

If the LED does not light up:

- Remove the LED and re-insert it after rotating it 180° around its own axis.



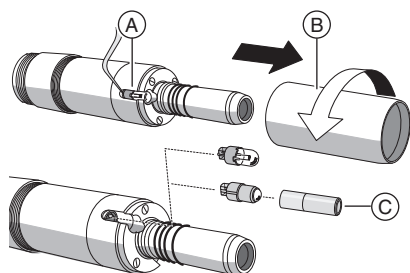
### 8.3 Replacing lamps (BL E motor)

**NOTICE!** The LED of BL E motor cannot be replaced. Contact your service technician. Repair may only be performed by Sirona or by authorized service technicians trained expressly for that purpose by Sirona.

## 8.4 Replacing lamps and motor sleeves (BL ISO / BL ISO C/E/S motor)

**NOTICE!** A LED is built into the BL ISO C/E/S motor. This LED is designed for the service life of the motor and may be replaced only by Sirona or a service technician trained by Sirona. Safe operation is no longer guaranteed in case of improper replacement.

**CAUTION!** The lamp can be hot. Risk of burns! Allow the lamp to cool down.



✓ Use an LED or halogen lamp with a green base [ → 20].

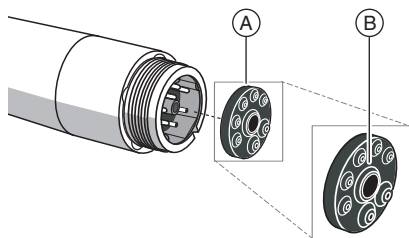
1. Detach the instrument.
2. Unscrew the motor sleeve (B).
3. Push the faulty halogen lamp / LED (A) with a probe or the like out of the socket, pulling out from the front.
4. Insert the new lamp. Note the position of the contact surfaces.  
**NOTICE!** The LED can be destroyed through pressing on the lens. Therefore, please use the installation tool (C) provided to insert the LED.
5. Unscrew the motor sleeve.
6. Check the light function.

If the LED does not light up:

- Remove the LED and re-insert it after rotating it 180° around its own axis.

## 8.5 Replacing the sealing washer

If water leaks out between the motor and the hose connection, replace the sealing washer.



✓ The color of the new sealing washer matches the colored mark of the hose coupling that fits the motor.

1. Disconnect the motor from the supply hose.
2. Use a probe or the like to remove the defective sealing washer (B) from the rear of the motor.
3. Attach the new sealing washer, observing the position of the tubes and contact pins and press it to the stop.

**IMPORTANT:** The bead (A) on the sealing washer faces the supply hose.

## 8.6 Replacing O-rings

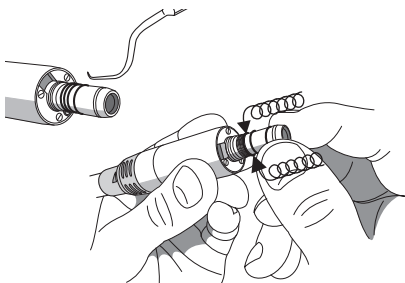
**NOTICE!** Do not use any sharp tools and do not stretch the new O-rings.

If the handpiece coupling leaks, the O-rings must be replaced.

**IMPORTANT:** The BL Implant motor and the basic adapter (APEX) have only one O-ring.

1. Remove the defective O-rings.
2. Insert the O-rings one after another. Start with the first groove.
3. Apply T1 spray lightly onto the O-rings.

**NOTICE!** Do **not** use Vaseline or silicone grease on the O-rings.



## 9 Spare parts and consumables

Use only original Sirona parts or parts approved by Sirona.

### BL motor

	REF		REF
Halogen lamp	60 34 677	BL sealing washer, blue	62 24 484
LED	63 14 558	ISO adapter	60 00 793
Lamp ring	60 81 082	Basic adapter (APEX)	59 83 072

### BL E motor

	REF		REF
BL ISO C/E/S sealing washer, green	63 11 240	ISO adapter	60 00 793
Basic adapter (APEX)	59 83 072		

### BL ISO motor

	REF		REF
BL ISO motor sleeve	60 90 844	BL ISO sealing washer, black	60 81 074
Halogen lamp	60 34 677	O-ring 8.4 x 0.7	58 60 390
LED	63 14 558	T1 spray (6 x 250 ml cans)	59 01 665

### BL ISO C motor

	REF		REF
BL ISO C motor sleeve	63 49 851	O-ring 8.4 x 0.7	58 60 390
BL ISO C/E/S sealing washer, green	63 11 240	T1 spray (6 x 250 ml cans)	59 01 665

### BL ISO E motor

	REF		REF
BL ISO E motor sleeve	64 69 204	O-ring 8.4 x 0.7	58 60 390
BL ISO C/E/S sealing washer, green	63 11 240	T1 spray (6 x 250 ml cans)	59 01 665

### BL ISO S motor

	REF		REF
BL ISO motor sleeve	63 49 844	O-ring 8.4 x 0.7	58 60 390
BL ISO C/E/S sealing washer, green	63 11 240	T1 spray (6 x 250 ml cans)	59 01 665

**BL Implant motor**

	REF		REF
BL Implant motor sleeve	62 42 734	O-ring 15 x 0.7 (5 pieces)	62 81 559
BL Implant sealing washer, yellow	62 24 492	T1 spray (6 x 250 ml cans)	59 01 665
O-ring 8 x 1	70 36 189		

**ISO Adapter / Basic Adapter (APEX)**

	REF		REF
O-ring 8.4 x 0.7	58 60 390	T1 spray (6 x 250 ml cans)	59 01 665
O-ring 8 x 1	70 36 189		

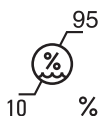
# 10 Storage and transport conditions



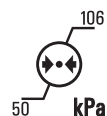
Protect from  
moisture



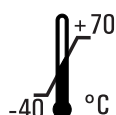
Sensitive  
contents



Relative humidity



Air pressure



Temperature

After a severe change in  
temperature, allow sufficient time  
for acclimatization.

## 11 Disposal

- According to current information, the product does not contain any substances that are hazardous to the environment.
- Disinfect the product prior to disposal.
- Observe the applicable disposal regulations for your area.

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We reserve the right to make any alterations which may be required due to technical improvements.

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**Sirona Dental Systems GmbH**



Fabrikstraße 31  
D-64625 Bensheim  
Germany  
[www.sirona.com](http://www.sirona.com)

**Contact in the USA:**

Sirona Dental, Inc.  
4835 Sirona Drive  
Charlotte, NC 28273  
USA

Order No

**65 45 474 D3337**