



## LED Coupling

---

***NL10LED • NKLED***

OM-TR355E

Please read this operation manual carefully and file for future reference.

 **Caution**

- When operating the product always consider the safety of the patient.
- The product is designed only for clinical dental use by qualified personnel.
- Do not attempt to disassemble the product or tamper with the mechanism.
- Do not wipe with, clean or immerse in high acid water or sterilizing solutions.
- Do not allow any impact on to the product. Do not drop the product.
- Do not connect or disconnect the hose or handpiece until the device has completely stopped.
- Refer to the operation manual of the hose and handpiece for connection instructions.
- Do not attempt hydrothermal cleaning or rinse the device in water.  
It may cause malfunction or electric shock.
- Follow the instrument manufacturer's instructions.
- Ensure clean, dry air supply. Moisture and debris in air supply may cause the device to malfunction.

# 1. Specifications

---

Model	NL10LED	NKLED
Handpiece Type	Brasseler NL Coupling	KaVo®MULTIflex®
Hose Type	ISO9168 Type C	
Water Adjustment	No	Yes
Optic Type	White LED	
Voltage	AC/DC 3.3V±0.05V	
Activate Voltage	2.5 - 4.0V	
Consumption current	Less than 0.25A Typ. (3.3 V)	

\* For lighting power, follow the EN60601-1, Voltage has to match SELV

(Safety Extra Low Voltage)

KaVo® MULTIflex® is copyright for Kaltenbach & Voigt GmbH & Co. (Germany).

## 2. Features

---

- There is no generation of heat in the light source, increasing power savings and extending the life of the LED.
- Contains a Water Adjusting Ring to adjust the water flow. (NKLED).
- Can be used on a variety of units regardless of the polarity.
- Utilizes a Non-Retraction Valve to prevent the water back flow into the delivery unit.

### 3. Setting

---

#### **Caution**

This coupling should not be connected to ISO standard 4 hole tubing. If it connects to a hose without the light function, the light terminal can be damaged.

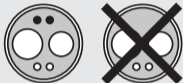


Fig. 1

#### 1) Connecting

1) To connect, align and insert carefully and firmly the pin of the coupling into the pin holes of the hose, and fasten the hose nut securely. (Fig.2)

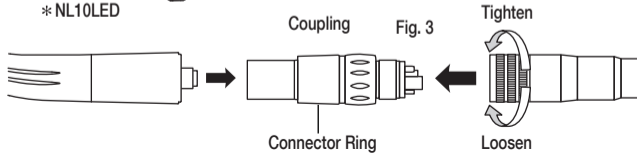
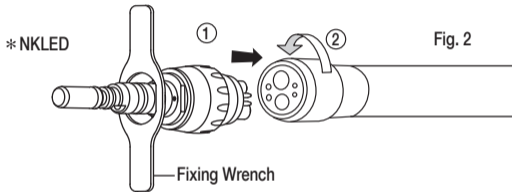
\* Coupling cap as attached. (NL10LED)

\* Wrench (NKLED)

2) Insert handpiece straight into coupling until it clicks.

**! Caution**

Ensure the handpiece is attached tightly to the coupling.



## 2) Disconnecting

- 1) Pull back the connector ring and gently remove the handpiece from the coupling.  
(NL10LED)
- 2) Loosen the hose nut and gently pull out the hose.

### **Caution**

Ensure the handpiece is attached tightly and properly to the coupling. **DO NOT** pull the connector ring during air pressure supply. If the Connector Ring is pulled during air pressure supply, handpiece may fly away. (NL10LED)

## 4. Controlling Water Supply (NKLED)

---

Water supply is controlled by turning the Water Adjustment Ring.

Water Adjustment Ring can rotate back side to decrease the water supply.

(Refer to Fig.4 NKLED)

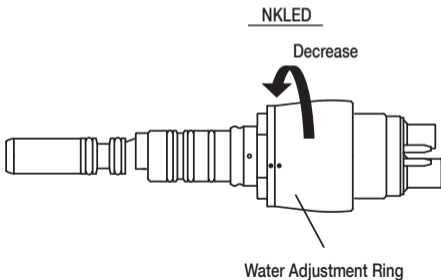


Fig. 4



## 5. Maintenance

---

After each use, clean the surface of the coupling with brush etc., but do not use a metal brush. Wipe coupling with the cotton moistened with disinfecting alcohol.



This coupling can not be Autoclave sterilization.



This coupling can not be cleaned and disinfected with a Thermo-Disinfector.

## 6. Non-Retraction Valve

---

A Non-Retraction Valve is equipped in the Coupling Joint, which shuts off the water retraction right at the handpiece head, to prevent oral fluids from being sucked into the water line. (Fig. 5)

To replace the valve, remove the back-end gasket. Pull and remove the water tube, and replace the Non-Retraction Valve.

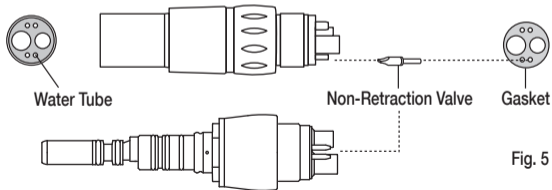


Fig. 5

## 7. Changing O-Ring (NKLED)

### **Caution**

Do not pull the O-ring with excessive power.

### 1) Changing O-Ring

- 1) Remove the worn O-rings.
- 2) Insert new O-rings in the O-ring grooves.

- \* Optional O-rings (2 pcs.)  
: Order No. 501518240
- \* Optional O-rings (3 pcs.)  
: Order No. 50151810

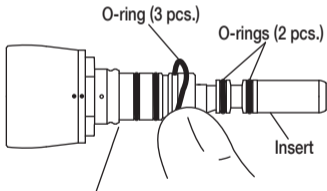


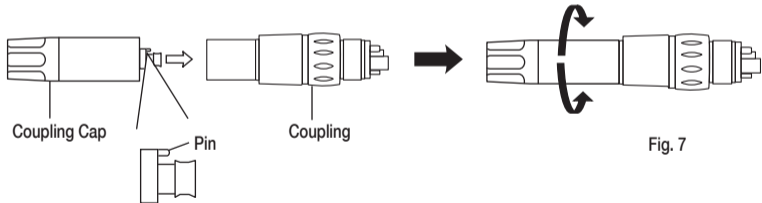
Fig. 6

## 8. Coupling Cap (NL10LED)

---

### 1) Connecting

To connect, align and insert carefully and firmly the pin of the Coupling cap into the pin holes of the coupling, and turn the ring until you hear the “Click” noise.



## 2) Using the Coupling Cap

### Dust Cover

Use it as a cap to prevent dust and debris from entering into the coupling when the handpiece has been removed.

### Wrench

Use Wrench to help remove the coupling from the hose.

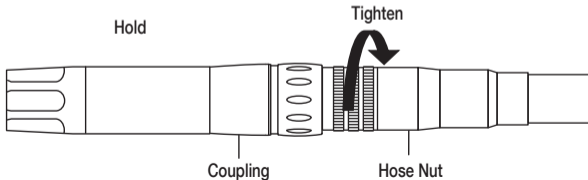


Fig. 8

## 9. **Warranty**

Brasseler USA warrants the coupling against defects in manufacturing, workmanship and materials. Brasseler USA reserves the right to analyze and determine the cause of any problem. Warranty is voided should the coupling not be used in accordance with this manual.

\*Specifications may be changed without notice.

By Your Side  
in Dentistry



**BRASSELER USA**<sup>®</sup>  
DENTAL INSTRUMENTATION

One Brasseler Boulevard, Savannah, GA 31419

To order call 800.841.4522

or fax 888.610.1937.

Visit our website: [www.BrasselerUSA.com](http://www.BrasselerUSA.com)