



E-type Contra Angle Handpiece

EC-20L / EC-20ML / EC-30BL / EC-35BL / EC-30BLP / CTM-P01 / CTM-P02
 ECN-20L / ECN-20ML / ECN-30BL / ECN-35BL / ECN-30BLP / CTN-P01 / CTN-P02
 EG-20L / EG-20ML / EG-30BL / EG-35BL / EG-30BLP / CGM-P01 /
 EGN-20L / EGN-20ML / EGN-30BL / EGN-35BL / EGN-30BLP / CGN-P01



⚠ This product is designed for dental use. Its operation and maintenance should be done under dentist's supervision.

SPECIFICATION:

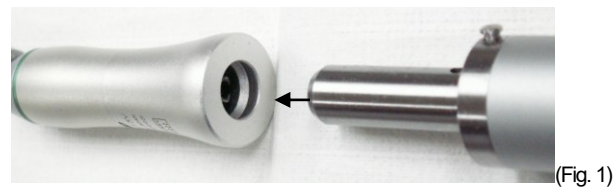
Maximum Rotation Speed	: 20,000rpm	EC-20L, EC-20ML, ECN-20L, ECN-20ML
	: 30,000rpm	EC-30BL, EC-35BL, EC-30BLP, CTM-P01, ECN-30BL, ECN-35BL, ECN-30BLP, CTN-P01
Gear Ratio	• EC-, ECN-, CTM-, CTN-	: 1 to 1 of Motor rotation
	• EG-, EGN-, CGM-, CGN-	: 4 to 1 of Motor rotation
Applicable Bur	: CA type ISO standard (2.35φ)	
Coupling	: ISO standard (E-type)	
Sterilization	: 135°C autoclave for 15min.	

HOW TO USE:

- ⚠ Check for vibration, noise and overheating outside the patient's mouth before use. And if any abnormalities are found in use, stop using immediately and contact your dealer.
- ⚠ Please avoid disassembling or modifying the product.
- ⚠ Do not drop, apply excessive force / impact on Handpiece. Warranty is invalid for the trouble caused by those acts.

1. Coupling with Motor

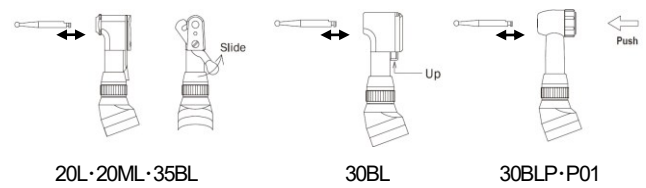
Push the motor nose into the sheath of Handpiece all the way until the stopper of Airmotor is properly hooked in the inside groove of Handpiece. Verify proper coupling by pulling the Handpiece and the Airmotor. (Fig. 1)



2. Bur Change

• Mount-on: Slide open, up the latch or push head cap. Insert the bur all the way till the end and make slightly turn. Slide close, down or release where latch fits into the groove of bur. Verify that bur is properly mounted on, by pulling it with hands. (Fig. 2)

• Mount-off: Slide open, up the latch or push head cap, and pull off bur. (Fig. 2)



⚠ Do not apply any excessive force that can deform bur.

3. Operation

Use with running below Maximum Rotation Speed. ⚠ Please make trial run at low speed after coupling.

⚠ In high speed use, the bur with large operating diameter could fly off and cause serious damage on human body. Please observe speed limit of bur.

DAILY CHECK

Every time prior to its use, please check handpiece on the points followed,

1. Chuck capability of holding bur / 2. Connection between head and sheath / 3. Abnormal noise, vibration, heat generation /
4. Connection with a motor / 5. Deform, Damage / 6. Loosened cap, screw

⚠ When any abnormality is detected on daily check or use, immediately stop its operation, and have the handpiece checked by us.

MAINTENANCE

⚠ To keep Handpiece under good condition, lubricate oil for dental Handpiece should be used.

1. Lubrication

Frequency

• Before autoclave	: Every time	• After Cleaning	: Every time	• After use	: Every time
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Be sure to lubricate before autoclave, and in the case that water and/ or dust gets inside. Spray lubrication could also make inside cleaning. It should be done twice each time. Spray lubricate oil at the back of sheath of Handpiece. (Fig. 3)



⚠ Without being held firm by hand, Handpiece could be pushed away by air-pressure of spray. Accidental drop could cause damage on the device.

⚠ When water goes inside the Handpiece, lubricate more than three times.

⚠ Do not lubricate handpiece with bur attached.



2. Surface Cleaning

Clean with brush and wipe off by cloth. Lubrication should be done every time after surface cleaning. It cleans better to apply a little amount of alcohol on the cloth.

⚠ Do not place handpiece into any chemical liquid such as disinfectant.

3. Inside Cleaning

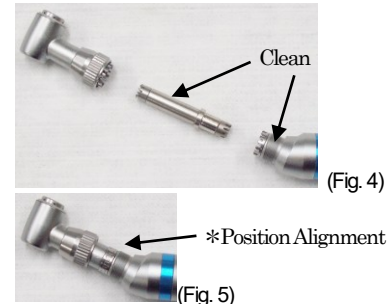
Take the same steps with the process of spraying lubricate oil. Run the handpiece at low speed every after lubrication. Repeat the process at least twice, to drive off any dirt. Do inside cleaning once a day.

4. Cleaning Internal Gears

Any foreign substance such as saliva, blood, chemical, inside the head needs to be immediately removed by the steps followed.

- ① Disassemble the head (Fig.4).
- ② Use brush or cloth to thoroughly clean each part(Fig.4).
- ③ After aligning position(Fig.5), Head needs to be securely screwed on sheath.
- ④ Lubricate every time after cleaning.

⚠ Do not place handpiece into any chemical liquid such as disinfectant.



STERILIZATION ⚠ Do not put Handpiece through ultrasonic disinfection solution cleaning procedure. Do not use cold sterilization or dry heat.

⚠ Please use Class B sterilizing device stated in EN13060.

1. Clean with brush and wipe off by cloth. Refer to the section, Maintenance, 2. Surface Cleaning.
 2. Lubricate with Spray. Refer to the section, Maintenance, 1. Lubrication.
- ⚠ Blood, debris, other substance left inside Handpiece, can be solidified during sterilization and cause break-down. Please clean and lubricate well before autoclave.
3. Place Handpiece in sterilization pouch. Autoclave at temperature 134-137°C(2Mpa) for 15min.
- ⚠ Prevent the bur on handpiece from hitting others in time of autoclave.
- ⚠ Please operate Autoclave dry cycle at temperature 135°C.
4. Leave Handpiece in the sterilization pouch stand till excessive oil inside flows out.

REPLACEMENT PARTS

1. Replacement Head

MODEL No.	Replacement Head Item #
EC-20L, EG-20L	EH-20L
EC-30BL, EG-30BL	EH-30BL
EC-35BL, EG-35BL	EH-35BL
EC-30BLP, EG-30BLP	EH-30BLP
CTM-P01, CGM-P01	EHM-P01

MODEL No.	Replacement Head Item #
ECN-20L, EGN-20L	EHN-20L
ECN-30BL, EGN-30BL	EHN-30BL
ECN-35BL, EGN-35BL	EHN-35BL
ECN-30BLP, EGN-30BLP	EHN-30BLP
CTN-P01, CGN-P01	EHN-P01

2. How to change head

- ① Unscrew pouch nut and remove head. (Fig.6)
- ② Match teeth of head and sheath each (Fig.7), and screw pouch nut tight. Check the head is securely fixed.
- ③ Please change head once every year.



Fig. 6



Fig. 7

WARRANTY

Trouble, which occurs due to material defect or despite with correct use as the instruction manual states, during the period specified below, is covered under warranty by the manufacturer. Quality deterioration caused by drop of CA Handpiece will be excluded from warranty coverage.

Contra Angle Handpiece: 6 months / Spare Head: 3 months



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