

ENDO Ace[®]

Quick instructions



Your Endo Specialist™

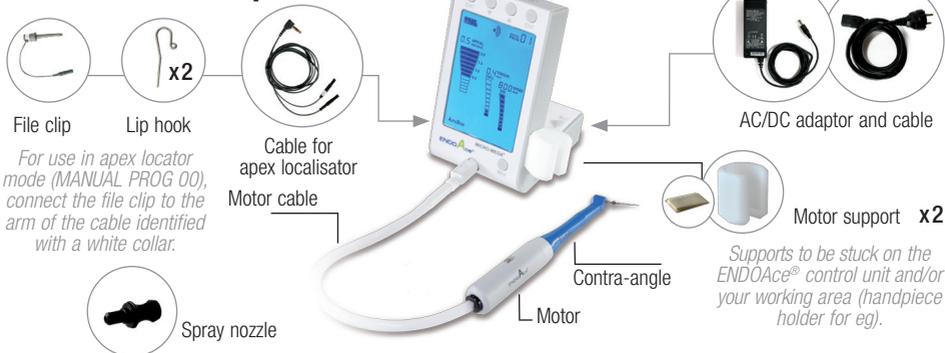


Warnings, precautions for use, indications and contra indications.

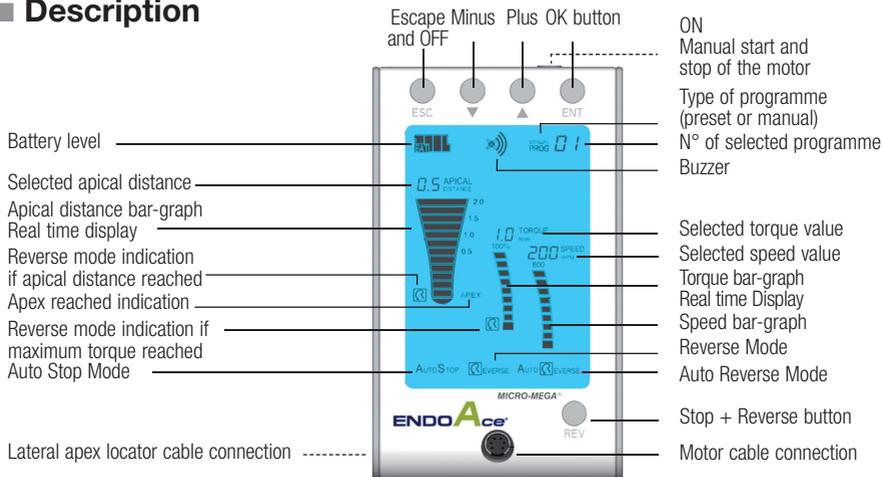
Please refer to ENDOAce® user manual.

For optimal use, we highly recommend not to over flood the canal with irrigant.

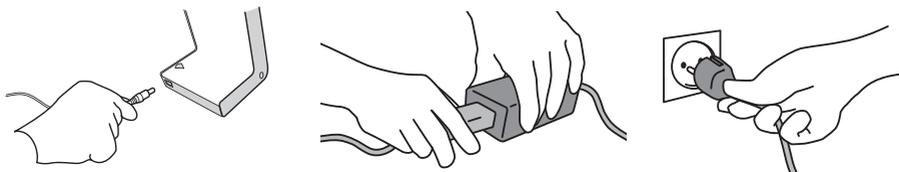
Standard components



Description



Electrical connection

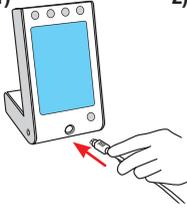
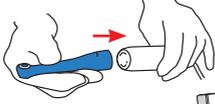
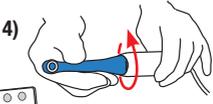
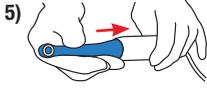
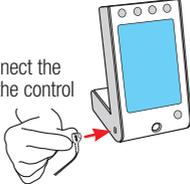


First use

Before first use, please respect a charging time of **14 hours**.



■ Connection

- 1) 
 - 2) 
 - 3) 
 - 4) 
 - 5) 
 - 6) **First** connect the cable to the control unit. 
 - 7) Connect the lip hook to the arm of the cable without white collar. Then place the lip hook on the patient's lip. 
- Push the contra-angle until the black line is covered.

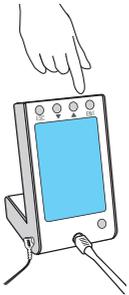
■ Programme selection (A)

A Preset programmes (PROG 01 → PROG 14)

Please consult the **programmes card** to know the programmes corresponding to your files.



Escape button: **ESC**
 Minus button: ▼
 Plus button: ▲
 OK button: **ENT** (Enter)

- 1)  **ON:**
RUN/STOP button
- 2)  **MANUAL PROG 01**
- 3)  Select the programme corresponding to your file: ▼
- 4)  **PROG 03** for example
(programme 03)

ENDOAce®
is now ready to use.

The apical distance is preset at 0.5 and the reaction mode is Auto Reverse.
If you want to modify them:

- 1) Modify the **apical distance**:
ENT for 3 sec
 Select your apical distance:
 ▼ and/or ▲
 Valid: **ENT**
- 2) Choose the reaction mode **Auto Reverse*** or **Auto Stop***:
 ▼ and/or ▲
 Valid: **ENT**

ENDOAce®
is now ready to use.

* **Attention:** the selected reaction mode will be the same for all programmes.

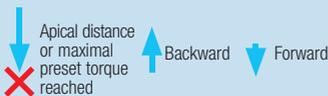
Auto Reverse / Auto Stop

You have a choice between two reaction modes of the motor:
 Auto Reverse or Auto Stop.

Auto Reverse: the motor stops, rotates backwards for a moment and then rotates forwards again.

Auto Stop: the motor stops, reverses for a brief moment and then stops.

Audible (adjustable) alarm beeps when working within the vicinity of the apex.

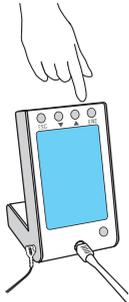


■ Programme selection (B)

B Manual programmes

(MANUAL PROG 01 → MANUAL PROG 09)

Please consult the **programmes card** to help you programme your own personal working sequences.



ON:
RUN/STOP button



MANUAL PROG 01



ENT for 3 sec.



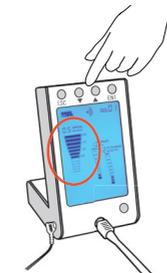
Set the **speed**:
▼ and ▲

Valid: **ENT**



Set the **torque**:
▼ and ▲

Valid: **ENT**



Set the **apical distance**:
▼ and ▲

Valid: **ENT**



Choose the reaction mode
Auto Reverse* or **Auto Stop***: ▼ and ▲

Valid: **ENT**

ENDOAce®
is now ready
to use.

You can
memorize
your other
programmes.

■ Apex locator mode (MANUAL PROG 00)

Connect the lip hook as indicated in the paragraph **Connection** page 2.

Then connect the file clip to the arm of the cable identified with a white collar and the manual handfile to the file clip.

Place the lip hook on the patient's lip.

In apex locator mode (MANUAL PROG 00), you can also run the contra-angle at the same time. Motor start has to be done manually by pressing the RUN button.



ENDOAce® automatically starts at the entrance of the canal when the tip of the instrument makes contact with the dentin (except MANUAL PROG 00). For a manual start, press the RUN/STOP button. In each case, the motor stops as soon as the contact between the instrument and the canal is lost.

In case a problem occurs, briefly press on the REV button (REVERSE) located under the display of the control unit or on the RUN/STOP in order to stop the motor. If the instrument is stuck, a second press on the REV button allows the motor to run in reverse.

At 2 mm from the apex, ENDOAce® will start beeping in a changing rate. The nearer the file gets to the preset working length, the higher the beep rate becomes.

■ Switch off

ENDOAce® will automatically shutdown after 15 minutes when not in use or by pressing the **ESC** button for 3 seconds.

■ Troubleshooting

The contra-angle does not start:

Check that the motor cable is properly and deeply connected to the control unit.	Check that the lip hook is properly fitted to the patient's lip.	Check that the connection of the apex locator cable to the control unit is correct.	Check that the lip hook is connected to the arm without white collar.	Check that the contra-angle is correctly fixed on the motor (the black laser marking at the back of the contra-angle should disappear).	Check that the file has a metallic shaft and not a plastic one.	Check that the canal is properly irrigated: - If canal is too dry, irrigate it. - If canal is too flooded, dry it.	Alternatively, start the motor manually by pressing the RUN button.
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The apical distance indicator alternately displays O.A (Over Apex) and E (Error) and the control unit beeps during 1.5 sec. The contra-angle is still rotating:

The pulp chamber is flooded. Remove excess irrigant.
You can continue to use ENDOAce® but in that case, the apical distance control function is deactivated.

The control unit turns off during motor operation (excessive torque):

Switch on the control unit again. Control the battery level indicator.
If the battery is low, recharge batteries. Plug the adaptor on the main and continue your procedure.



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