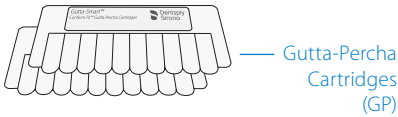




Gutta-Smart™ Getting Started Guide

1

Package contents



20 Ga cartridges (10)
23 Ga cartridges (10)
25 Ga cartridges (10)*

**purchased separately*

Getting Started Guide



Directions For Use



Thermal Response Tip* (TRT)
**(purchased separately)*



Electric Heat Pluggers (EHP)



Flow Handpiece Front-end Sealing Cap



Pack Handpiece Front-end Sealing Cap



Flow Heater (HTR)



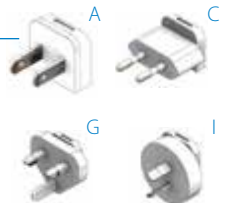
Cannula Bending Tool



Power Adapter (100–240V, 50–60Hz)



Plug Adapters (used with Power Adapter)



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Disinfection & cleaning

The electric heat pluggers, flow heaters and thermal response tips must be cleaned, disinfected and sterilized before each usage to prevent any contamination. This concerns the first use, as well as all subsequent uses. Refer to the Directions For Use for required sterilization instructions. The base station and handpieces must also be cleaned and disinfected before each usage. The use of custom front-end sealing caps are required for wipe-down disinfection of the handpieces. Prior to using a GP cartridge on a patient, wipe the cannula with isopropyl alcohol and allow to dry.

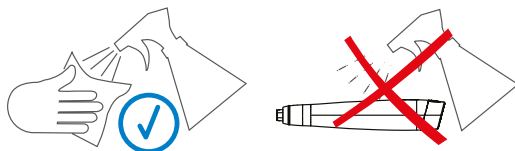
Handpieces

- (A)** Insert the front-end sealing caps firmly onto the ends of the pack and flow handpieces.



Do not spray cleaning solutions directly on the handpieces.

- (B)** Clean the exterior of the handpieces with a soft cloth moistened with a mild non-chlorinated detergent or disinfecting solution.

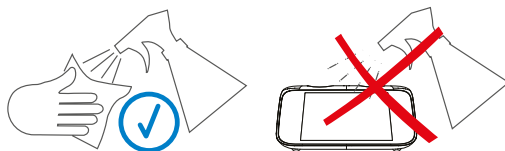


Base Station



Do not spray cleaning solutions directly on the base station.

- (A)** Clean the exterior of the base station with a soft cloth moistened with a mild non-chlorinated detergent or disinfecting solution.



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Handpiece set-up

Before Use – System Setup

- A** Plug the cord from the power adapter into the socket on the back of the base station.

- B** Place both handpieces into the base station
Allow to charge until the green LEDs on the handpieces stop flashing, indicating a full charge. Either handpiece can be placed into either side of the base station.

Attaching Electric Heat Plugger (EHP) to Pack Handpiece

!
EHPs can be installed in any one of 4 orientations.

- A** Select one of the three EHPs provided
Size small, medium, or large

- B** Seat the EHP
Push the EHP into the end of the pack handpiece until it seats firmly.



- C** After use, remove the EHP
To remove the EHP, wait for it to cool down, then pull straight out from handpiece.

Attaching Thermal Response Tip (TRT) to Pack Handpiece

!
The pack handpiece temperature must be set to 90°C when using the TRT to prevent overheating and patient injury.

- A** Connect the TRT
Push the TRT into the end of the pack handpiece until it seats firmly.



B After use, remove the TRT

To remove the TRT, wait for it to cool down, then pull straight out from handpiece.



Attaching Heater (and GP cartridge) to Flow Handpiece

A Select a gutta-percha (GP) cartridge

20, 23, or 25 gauge

B Insert the GP cartridge through the heater



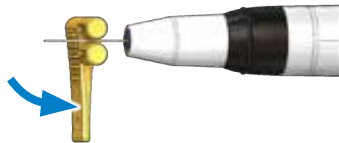
C Thread the heater with the GP cartridge onto the flow handpiece



Using anything other than the cannula bending tool to curve the cannula can result in cartridge rupture or handpiece damage. Repeated bending can damage the cannula.

D Bend the cannula

Bend the cannula to the desired angle using the cannula bending tool.




E Remove after use



To remove the heater, wait for it to cool down, then unscrew it from the flow handpiece. The GP push-rod will automatically retract.

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Features

Pack Handpiece Features





Electric Heat Plugger (EHP) 
or
Thermal Response Tip (TRT) 


Cuff switch


EHP mode *Temperature setting 100°-400°C.*
Press and hold the raised ridge on the cuff switch to heat the EHP while in contact with gutta-percha. To reheat the EHP, press the activation cuff again. The heater will automatically shut off after 15 seconds if the temperature is 200 degrees or below. If the temperature is over 200 degrees, it will shut off at 10 seconds.

TRT mode *Temperature setting 90°C.*
Press and hold the raised ridge on the cuff switch to heat the TRT. The heater will automatically turn off after 60 seconds of continuous heating. Release and press the cuff switch again to continue heating.

Heater indicator
 *Blue: Heater is on (cuff switch is depressed).*

Audible tone option 
High-frequency tone: Heating up
Low-frequency tone: Set temperature reached and maintained

Bluetooth indicator 
::0:: *Flashing blue: Searching for connection*
● *Blue: Bluetooth connection established*
::0:: *Flashing yellow: Connection lost*

Battery level indicator 
● *Green: Battery full*
::0:: *Flashing Green: Battery charging*
● *Red: Battery low*
::0:: *Flashing Red: Battery very low. Charge immediately.*

Flow Handpiece Features



Heater (HTR)

Removing the HTR initiates GP push-rod retraction.



Cuff Switch

Press the raised ridge on the cuff switch to initiate heating, if not already at set temperature. Heating takes approximately 90 seconds. The heater will turn off after 10 minutes of inactivity to conserve battery power.




With HTR at set temperature, press and hold to extrude GP.

With no HTR installed, press to interrupt GP push-rod retraction. Each additional press alternates the push-rod direction, if necessary for cleaning.




GP push-rod direction indicator

-  Blue: GP push-rod moving forward
-  Flashing blue: GP push-rod retracting

Gutta-percha level indicator GP

-  Green: Full
-  Yellow: Low
-  Red: Critically low/empty

Heater status indicator

-  White light off: Heater off
-  Flashing white: Heating up
-  White: Set temperature reached and maintained

Bluetooth indicator

(see pack handpiece for more details)

Battery level indicator

(see pack handpiece for more details)

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Programming

Programming the Pack Handpiece

- A** Press the screen directly below the pack handpiece to access the pack settings.



Electric Heat Plugger mode



Setting the pack temperature to 100°-400°C automatically activates the electric heat plugger mode.

- B** Press the temperature segment on the touch-screen to adjust the pack temperature (100°-400°C) using the ▲▼ buttons that appear. Press the temperature segment again to exit the adjustment screen.



- C** Press the tone segment on the touch-screen to adjust the tone volume (0%-100%) using the ▲▼ buttons that appear. Press the tone segment again to exit the adjustment screen.



Thermal response mode



The pack temperature must be set to 90°C to activate the thermal response tip mode.

- D** If performing a thermal response test press the temperature segment on the touch-screen to adjust the pack temperature to 90°C using the ▲▼ buttons that appear. Press the temperature segment again to exit the adjustment screen.



Programming the Flow Handpiece

- A** Press the screen directly below the flow handpiece to access the flow settings.



- B** Press the temperature segment on the touch-screen to adjust the flow temperature (130°–160°C) using the ▲▼ buttons that appear. Press the temperature segment again to exit the adjustment screen.



- C** Press the flow rate segment on the touch-screen to adjust the flow rate (20%–100%) using the ▲▼ buttons that appear. Press the flow rate segment again to exit the adjustment screen.



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Operation

Operating the Pack Handpiece



Disinfect the handpiece and sterilize electric heat pluggers and thermal response tip before starting a procedure.

Electric heat plugger mode



If the tone volume is set to 0%, no tone will be audible to indicate the tip is heating up or maintaining the set temperature.

- A** Press the power button to turn on the handpiece.



- B** Press and hold the raised ridge on the cuff switch on the pack handpiece to heat the EHP.

You will hear a high-frequency tone while the tip is heating, then a low-frequency tone once the set temperature is reached. The heater will automatically shut off after 15 seconds if the temperature is 200 degrees or below. If the temperature is over 200 degrees, it will shut off at 10 seconds. To reheat the EHP, press the activation cuff again. The blue indicator ring illuminates while the heater is on (while cuff switch is pressed).



Thermal response mode



The pack temperature must be set to 90°C to activate the thermal response tip mode.



Place gutta-percha on the tip of the thermal response tip before applying to the patient's tooth.

- C** Press and hold the raised ridge on the cuff switch on the pack handpiece to heat the thermal response tip.

You will hear a high-frequency tone while the tip is heating, then a low-frequency tone once the set temperature is reached. The heater will automatically shut off after 60 seconds of continuous heating. Release and press the cuff switch again to continue heating if the heat cycle times out. The blue indicator ring illuminates while the heater is on (while cuff switch is depressed).



Operating the Flow Handpiece



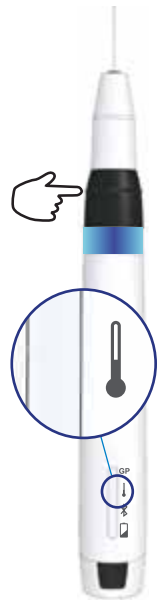
Disinfect the handpiece and sterilize the flow heater and thermal response tip before starting a procedure. Wipe the cannula with alcohol.

- A Press the power button** to turn on the handpiece.



- B Press and release the raised ridge on the cuff switch on the flow handpiece to initially heat up the gutta-percha cartridge to the set temperature.**

The heater status indicator will flash white while heating up and will become a steady white when the set temperature is reached. With the heater at the set temperature (heater status indicator illuminating steady white) press the cuff switch to extrude gutta-percha. The blue indicator ring illuminates while the gutta-percha push-rod is moving forward (while cuff switch is depressed).



- C Replace the gutta-percha cartridge** when the "GP" level indicator illuminates yellow (low level) or illuminates red (empty). Wait for the heater to cool, then unscrew the flow heater from the handpiece. Wait for the gutta-percha push-rod to automatically retract fully. Install a new gutta-percha cartridge into the flow heater then screw the flow heater back onto the handpiece.



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