







- **Scout the root canal with K- file** (usually 0.10) to evaluate the anatomy. Measure the working length using electronic apex locator.
- **Then use the Manual – Gentlefile(M-GF) by “push-pull” process**, first the yellow 017, if it does not reach the apex then repeat with the K-file and again with #17 M-GF and if necessary with #25 M-GF
- **Always irrigate the canal before you operate the handpiece**, and confirm patency using #17-25 hand Gentlefile
- Secure the Gentlefile® in the Handpiece head by friction force.
- Insert the Gentlefile® into the canal and activate the handpiece by pressing the on-off button.
- **Start vertical quick pecking motions** with slight apical pressure for about 5 seconds.
- Never push the handpiece, JUST maintain slight apical pressure with a pecking motion.
- Always work in a wet canal, maintain awareness of lubrication of the canals.
- **The recommended working sequence** is to start with the gray coronal Gentlefile® as far as it will go 1-3 sequences. If the gray file doesn't penetrate to the apical third, a #17-25 M-Gentlefile- can be used to help clear debris and enable the Gentlefile® to progress down the canal. Attempt to get within 1 mm of the apex with the GF. For best tactile feedback the fine tuning of the last mm should be done with the manual GF .
- **Proceed with crown-down sequence**  
Depending on how far the grey file penetrated into the canal, the next file is chosen. If the gray file neared the working length, then a final file will be the next file chosen, based on the estimated apical diameter (commonly blue or red).
- **If the canals need more exploration and shaping** then a stiffer file, the, green or blue will be next, to proceed towards the working length.

- **Always use copious irrigation** and manual patency files. When the file no longer advances, switch to the next smaller file in the sequence **until about -1.0 mm from the working length is reached.**
- **If you face difficulties penetrating the canal** then try the M-GF . Start with M-GF # 17 and the #25 according the canal condition. Then repeat crown-down sequence with the Gentlefile®
- **At the end of the cleaning procedures**, irrigate with EDTA or citric acid.
- **Activate the solution by running the Gentlefile®.**  
in each canal for about 20-30 seconds with the smallest file used to prepare the canals(recommended to locate the GF about 2 mm from the apex to get the best result from the activation process). Irrigate again with sodium hypochlorite and activate with the Gentlefile® for about 20-30 seconds.
- **Irrigate the canals with 95% alcohol**, dry the canals, and fill.

File Type	Tip Size	Length
	022	20 mm
	034	25 mm
	029	25 mm
	026	25 mm
	023	25 mm
	021	25 mm

- This is a basic protocol only, it is **recommended for all users to review the video presentations available on the Gentlefile® web site: [www.gentlefile.com](http://www.gentlefile.com)**

### Technical Operating Instructions

1. Connection of head (contra-Angle): Insert the head onto Handpiece joint and push firmly to complete connection.
2. Insertion of File: Insert the file into its place on the handpiece-head by gently pushing the file into the head.
3. handpiece operation: Place the file in the canal and press the power switch briefly. Verify that the light indicator is on, and not blinking. The handpiece will work until the power switch is pressed again briefly.
4. Before extracting the file from the canal, push the power switch again to stop operation.

### Charging & Maintenance

Connect the charger's plug to the unit's socket, located on the back lid of the unit. When the battery is full, charging will stop automatically (Green light indication on the charger will appear). When charging is completed, unplug the unit from the charger.

**Note:** It is recommended to charge the device prior to each treatment.

**Note:** To prolong the battery lifetime, it is recommended to disconnect the device from the charger after 4-5 hours.

**Alerts:** When the battery charge is low, the indicator light on the back lid of the unit will blink.

### Control and Safety

The Gentlefile system includes inherent safety mechanisms.

1. Motor Power control – when resistance is encountered, the motor's rotation speed declines, reaching a full stop in the presence of high resistance.
2. Motor Load Control – When the resistance in the canal rises' controller firmware detects the increase in load and limits the motor power to a safe predefined value.
3. After stoppage of the file (should that occur), the file may be released by manually pulling it clock-wise.



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