

- **Scout the root canal with K-file** (Usually 0.10) to evaluate the anatomy. Measure the working length using MedicNRG Electronic Digital apex Locator model Rider S3 or other.
- **Then use the manual Abrasive NiTi Gentlefile® by “push-pull” process** (or as usual), first the yellow 017, if it does not reach the apex then repeat with the K-file and again with #17 GF-08-HY01.
- **Always irrigate the canal before you operate the handpiece**, and confirm patency using #17 manual Gentlefile®.
- Secure the Gentlefile® (GF) in the Handpiece head by friction force.
- Insert the GF 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.
- But when using the GF-Brush don't use pecking motion just **move slowly up & down**.
- **Never push the GF**, JUST maintain slight apical pressure with a quick pecking motion.
- Always work in a wet canal and maintain awareness of lubrication of the canals.
- **Note:** The GF is not a pathfinder. **Never use it where a k-file has not previously been to length.**
- **The recommended working sequence:** start with the gray coronal GF as far as it will go for 1-3 repetition of 5 seconds each. If the gray file does not penetrate to the apical third, a #17 or #25 manual Gentlefile or the Gentlefile Brush can be used to help clear debris and enable the GF to progress down the canal. Thus is the sequence: **Patency file - irrigate - and GF.**
- Proceed with crown-down sequence: depending on how far the gray file penetrated into the canal, the next file is chosen. If the gray file neared the working length, then the final file is chosen based on the estimated apical diameter (blue 026 or red 023).

- Attempt to get within 1 mm of the apex with the GF. For best tactile feedback, and apical control, the fine-tuning of the last mm can be done with the manual GF Red #25. However, there is no contra-indication or danger for the Gentlefile to go to full apical 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 #17 or #25 manual GF.
- Start with #17 and the #25 according to the canal condition. You can also try with the GF-Brush after the manual Gentlefile. Then repeat crown-down sequence with the GF.
- At the end of the cleaning procedures, irrigate with EDTA or citric acid. **Activate the solution by running the GF Brush** in each canal for about 20-30 seconds. It is recommended to position the GF-Brush about 2 mm from the apex to get the best results from the activation process. Irrigate again with sodium hypochlorite and activate again with the GF-Brush for about 20-30 seconds.
- Dry the canals, and fill.

Cat. No. / File Type	Tip Size	Length
GF-01-FL 	0.22	20 mm
GF-05-FL 	0.23	25 mm
GF-04-FL 	0.26	25 mm
GF-09-BR07FL 	0.25	25 mm

#### Sterilization

1. Gentlefile files are provided non-sterile and must be sterilized before use.
  2. Use gravity displacement autoclave equipment, set to Temperature 134°C, Pressure of 20 Psi for 5 minutes or Temperature 123°C, Pressure of 15 Psi for 20 minutes.
- This is a basic protocol only. **It is recommended for all users to review the technical spec. and the video presentations, available on the Gentlefile® web site: [www.gentlefile.com](http://www.gentlefile.com)**

### Technical Operating Instructions

- Connection of head (contra-Angle): Insert the head onto Handpiece joint and push firmly to complete connection.
- Insertion of File: Insert the file into its place on the handpiece-head by gently pushing the file into the head.
- 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.
- 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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