

## VRN DA-1 Maintenance Guide

### I. Daily Maintenance

- 1.1 Before each use, sterilize the working tip, silicone sleeve, and wrench accessories in a steam sterilizer at 134°C and 0.22 MPa.
- 1.2 After treatment, use the wrench to remove the working tip. Wipe the working tip, silicone sleeve, and wrench with an alcohol swab to remove any blood residues.
- 1.3 After treatment, turn off the power promptly. Use a clean cloth dampened with water to wipe the surface of the device.

### II. Periodic Maintenance

- 2.1 Replace the working tip regularly. A damaged or heavily worn tip may reduce vibration performance. It is recommended to replace the tip after use in no more than 20 root canals.
- 2.2 Replace the silicone sleeve regularly. The recommended replacement cycle is every 6 months.

### III. Sterilization Instructions

- 3.1 Disinfect the working tip, silicone sleeve, and wrench with alcohol. Soak a clean dry gauze in 70%-80% ethanol, then wipe the surfaces to be disinfected twice. Allow 3 minutes for disinfection time. Let air dry naturally or use a clean, dry cloth to remove any remaining disinfectant.
- 3.2 Sterilize the working tip, silicone sleeve, and wrench in a high-temperature, high-pressure steam sterilizer at 134°C, 2.2 bar (0.22 MPa) for 4 minutes.
- 3.3 The maximum number of sterilization cycles is 250 times.
- 3.4 The following disinfection methods are strictly prohibited:
  - Boiling in any liquid solution
  - Soaking in iodine, alcohol, glutaraldehyde, or other disinfectant solutions
  - Heating in ovens or microwave ovens

### IV. Precautions for Use

- 4.1 Do not attach or detach the working tip while it is vibrating.
- 4.2 The working tip must be tightly secured before use.
- 4.3 Do not bend or grind the working tip.
- 4.4 Stop using the device if a harsh whistling sound occurs during use.
- 4.5 Do not apply excessive pressure when performing root canal irrigation.

### V. Protection and Storage

- 5.1 Handle and store the product with care. Keep it away from sources of vibration and store it in a cool, dry, well-ventilated environment.
- 5.2 Do not store the product with toxic, corrosive, flammable, or explosive materials.
- 5.3 Store the product in an environment with a temperature between -20°C and 55°C, relative humidity between 0% and 90%, and atmospheric pressure between 70 kPa and 160 kPa.