

**S35 / V-P10 / V-P11R / V-P11L / V-P12****Operation Manual**

OM-Z0218E

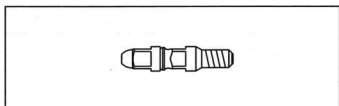
Thank you very much for purchasing our S35 (Plastic tip holder) and V-P10 / V-P11R / V-P11L / V-P12 (plastic Tip) products. Read this Operation Manual carefully before use.

**⚠ Warning**

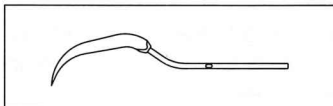
- The oscillation of the air scaler could exceed 200µm amplitude at the recommended air pressure. Caution is requested not to harm the patient.
- Do not use a tip on which rust is found. It may break while in use.

**⚠ Precautions for Use**

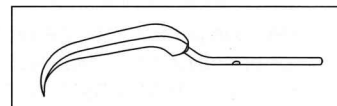
- S35 Tip Holder is designed specifically for the "Ti-Max S950/S970 Air Scaler Series" manufactured by NAKANISHI Inc. Be sure to use it in a dedicated unit.
- Use ONLY tips referred in this operation manual to mount on S35 Tip Holder.
- This product is designed for dental use. Do not use it for any purpose other than dental care.
- Do not allow any impact on to the product. Do not drop the product.
- Remove the tip or tip holder only after vibration has completely stopped.
- Handle a tip with care. It could cause injury to your hands and fingers.
- Check outside the patient's oral cavity before use. If any abnormalities are found, stop using the product and immediately and contact dealer.
- Be sure to check that the power level is set appropriately before use.
- Be sure to use the tip under sufficient quantities of water supply.
- Be sure to check that the Tip and Tip Holder are fixed securely before use.
- The Tip is a consumable. Check it for the state of wear and replace it with a new one in good time. (For standard replacement time, refer to the descriptions in the "5. Maintenance")
- When the Tip is damaged such as by breaking during use, stop use immediately and replace it with a new one. The damaged portion may injure the gums or periodontal tissues.
- Sterilization is required, after you purchase and each patient.

**1. Product Names and Numbers**

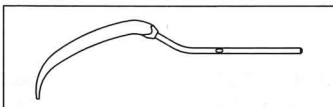
S35 : Z252015  
Plastic Tip holder for S950/S970



V-P10 (Pack of 3) : Y900184

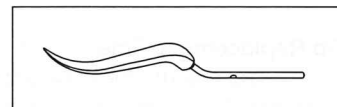


V-P11R (Pack of 3) : Y1002165  
Right curved type



V-P12 (Pack of 3) : Y1002167

\*This tip is a longer version of V-P10.



V-P11L (Pack of 3) : Y1002166

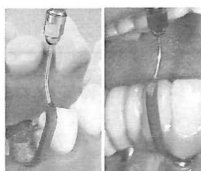
Left curved type

**2. Features of V-P10 / V-P11R / V-P11L / V-P12 (Plastic Tip)**

- This Tip is made by special plastic material and maintenance can be performed without damaging the surface of a prosthetic appliance such as metal.
- Economical Tip, easy to replace in case of breakage or wear.

**3. Application**

This Tip and Tip Holder are designed for dental air scalers. The Tip can remove plaque built up on the surface of implant or a prosthetic appliance such as metal, porcelain and resin.

**V-P10 V-P12**

V-P10 provides efficient maintenance of prostheses and implants. V-P12 serves a wide range of applications, including the maintenance of implants and other prosthetic treatments. Its shape offers easy access to all treatment areas.

**V-P11R/V-P11L**

V-P11R/V-P11L are double-bent Tips. This Tip is extra long to easily access areas difficult to reach and to avoid interference with neighbouring teeth or contours. Its shape is designed to best fit different tooth morphologies, making this a versatile Tip for a wide range of uses from anterior teeth to premolars.

## 4. Directions for Use

### 4-1 Mounting the Tip

When plastic Tip is used, S35 (Plastic tip holder) and a wrench (E-Tip Wrench and CR-20 Tip Wrench) are required.

- 1) Screw S35 into a handpiece by hand until it is tightened lightly. Then, tighten it securely with the wrench (E-Tip Wrench). (Fig. 1)
- 2) Insert plastic Tip into holder (S35). Insert it into holder until holder (S35) aligns with the indentation of the metal core of Tip. (Fig. 2)

#### **CAUTION**

Premature failure could occur unless tip comes in to an indentation.

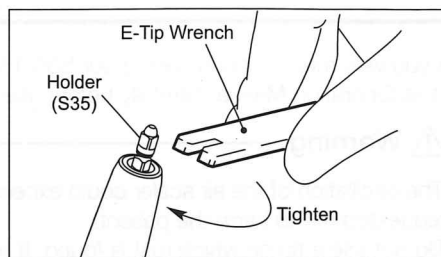


Fig. 1

- 3) Insert the wrench (CR-20 Tip Wrench) from over plastic Tip by drawing the Tip through the wrench hole and aligning the wrench with the screw of the holder (S35) and tighten it until it idles with a "click." (Fig. 3)
- 4) Pull the head to ensure that Tip is not removed from holder. Be careful since an unsecured Tip may not give proper vibrations.

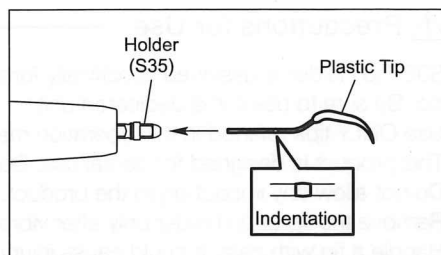


Fig. 2

### 4-2 Output Setting

Set the output below a proper air pressure (0.28 Mpa (2.9 kgf/cm<sup>2</sup>)) and use with the air pressure adjuster ring set to 2 or lower.

#### **CAUTION**

Tip may broke if

- Air pressure is higher than NSK suggested in the Air Scaler operation manual.
- Value of Air Pressure Adjustment Ring is higher than the value of the table mentioned below.

\* Be sure to read the operation manual for "Ti-Max S950/S970 Air Scaler Series" before use.

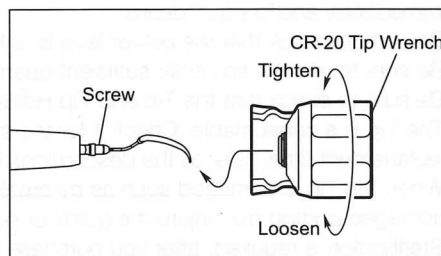


Fig. 3

### 4-3 Directions for use

- 1) Mount the Tip. (Refer to 4-1 Mounting the Tip)
  - 2) Set the proper air pressure following the Air Scaler operation manual and value of the air pressure adjustment ring.
  - 3) Remove plaque from the prosthesis according to the normal method.
- \* For operation of "Ti-Max S950/S970 Air Scaler Series", refer to the operation manual of "Ti-Max S950/S970 Air Scaler Series".

Product Name	Max. Power Level
V-P10	2
V-P11R	2
V-P11L	2
V-P12	2

## 5. Maintenance

### Tip Replacement Time

Tip replacement time is judged from its shape change. It is generally said that the plaque removal rate decreases approx. 25% when the head of the Tip shortens 1mm and approx. 50% when it shortens 2mm. You are recommended to check the Tip for the state of wear and replace it when its head has worn approx. 1mm for efficient operation of the Tip with proper vibrations.

### Sterilization

Be sure to clean for sterilization to store after use.

Autoclavable up to max. 135°C.

ex.) Autoclave for 20 min. at 121°C, or 3 min. at 134°C.

\* EN13060 or EN ISO17665-1 recommends autoclaving for 3 minutes (minimum holding time) at 134°C or 15 minutes (minimum holding time) at 121°C.

NSK recommends Class B sterilization.