

Scaler Tip Troubleshooting Guide

Failure 1: Scaler tip broken at the thread (picture 1)

Reasons

a) Wrong tools / no torque key

Customer is not using the torque key but a pincer or something else to tighten the scaler tip in the scaler. The scaler tip is being tightened too hard

- Forced fracture of the scaler tip
- Damage to the internal screw thread of the scaler

b) Scaler tip is not screwed correctly

Customer is using the torque key but is not tightening the scaler tip hard enough. In this case the thread of the scaler tip is swinging in the internal screw thread of the scaler

- Fracture by vibration
- Damage to the internal screw thread of the scaler

c) Scaler tip is sterilised with scaler

If the scaler tip is screwed on the scaler and then sterilised it could come to some micro-corrosion on the threads (scaler and scaler tip)

- Fracture by vibration
- Forced fracture of the scaler tip
- Damage to the internal screw thread of the scaler

d) Internal screw thread of the scaler is worn

See points already mentioned above.



Torque Key (606 06 196)

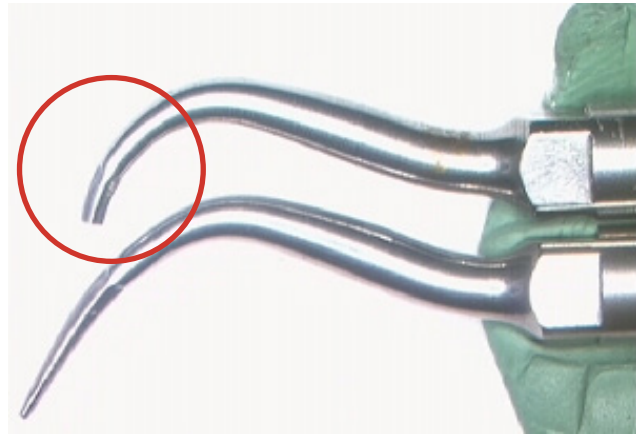


Picture 1 - Broken thread

Failure 2: Scaler tip broken at the tip (picture 2 & 3)



Picture 2 - Broken tip



Picture 3 - Broken and bent tip / New tip

Failure 2: Scaler tip broken at the tip

a) Too much pressure during the treatment

The customer is working with too much pressure

- Forced fracture of the scaler tip
- Damage to the internal screw thread of the scaler

b) Wrong power settings

Depending on the scaler tips, the customer is working with too much power.

Recommended Power Settings

A maximum power setting of 100% is possible for the tips specified below.

- Universal Scaling Tips
- SIROPERIO tips
- SIROPREP tips
- SIRORETRO tips

The exceptions are:

Tip no. 3L	up to 80%
Tip no. 4L	up to 70%
SIROPERIO 1	up to 70%
SIROPERIO 4PS	up to 80%
CEM tip	up to 30%

The user is responsible for setting the appropriate power level according to the medical indication.

- Fracture by vibration
- Damage to the internal screw thread of the scaler

c) Scaler tip dropped on the floor (picture 3)

The scaler fell on the bottom (directly on the screwed scaler tip)

- Forced fracture of the scaler tip
- Damage to the internal screw thread of the scaler

d) Improper use

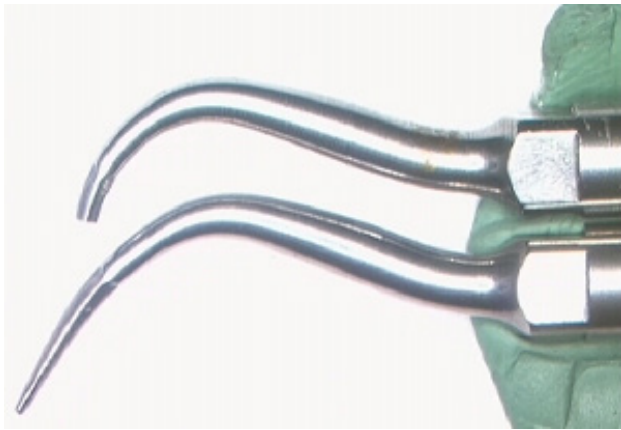
Customer tried to pull or remove an inlay, a crown or a bridge with the scaler tip

- Forced fracture of the scaler tip
- Damage to the internal screw thread of the scaler

e) Intercrystalline corrosion causes micro fissures in the metal

- Aggressive medicament residue was not removed and cleaned after treatment
- Wrong cleaning, disinfection or care products (e.g. disinfection liquids)

Failure 3: Other tip damage (picture 4, 5, 6, & 7)



Picture 4 - Broken and bent tip / New tip



Picture 5 - Bent tip



Picture 6 - Bent tip



Picture 7 - Damaged four corner shaft

Reasons:

a) Improper use (picture 4, 5 & 6)

Customer tried to pull or remove an inlay, a crown or a bridge with the scaler tip

- Forced fracture of the scaler tip
- Damage to the internal screw thread of the scaler

b) Scaler tip dropped on the bottom (picture 4)

The scaler fell on the bottom (directly on the screwed scaler tip)

- Forced fracture of the scaler tip
- Damage to the internal screw thread of the scaler

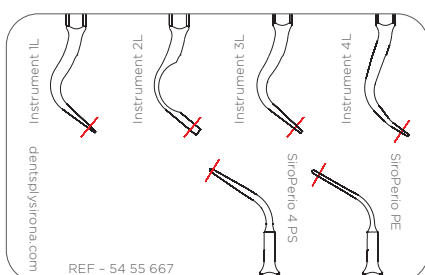
c) Wrong tools / no torque key (picture 7)

Customer is not using the torque key but a pincer or something else to tighten the scaler tip in the scaler. The scaler tip is tightened too hard

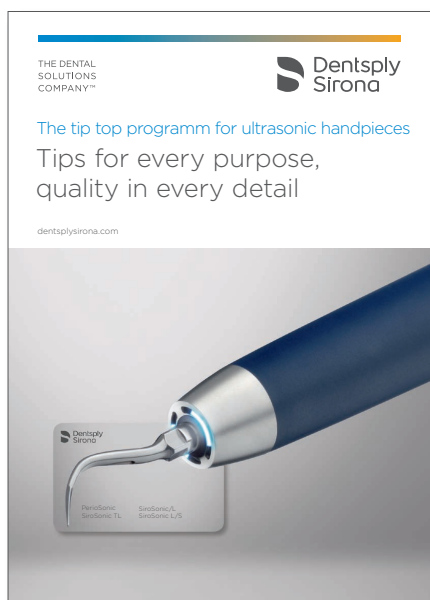
- Forced fracture of the scaler tip
- Damage to the internal screw thread of the scaler

Best Practice for Tip Maintenance & Longevity

- **Check your Tip length regularly:** We offer free tip cards to check your tip length and ensure optimal scaling results. Simply line up the tip against the card and ensure that the length is past the red mark on the physical card.
- **Replace worn tips:** Worn tips cause the use of excessive pressure when scaling which results in discomfort for the patient and practitioner, inefficient scaling and damage of the tips.
- **Choose the right tip for the job:** Utilising the right tip for the job ensures not only the most efficient treatment but also the longevity of the tip. Our tip brochure can help you choose the right tip for the job.
- **Sterilise the Tips in the torque key provided:** All tips are provided with a torque key (6006196). Tips should only be removed with this device and should be sterilised in this wrench as a protective casing to prevent damage during reprocessing. Do not place tip with torque key together in the ultrasonic bath.



SiroSonic Tip Card (5455667)



Brochure for Tip Selection (available online)

ANZ clientservices@dentsplysirona.com [11-21 Gilby Road, Mount Waverley, VIC 3149](https://www.dentsplysirona.com) www.dentsplysirona.com

Australia [1300 552 929](tel:1300552929) | New Zealand [0800 336 877](tel:0800336877)

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