Sequre TS-I

TS series replacement soldering tip – pointed type I
User Manual



The tip becomes very hot during operation. Always disconnect the soldering iron from power and let the tip cool down before replacing it.

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1. Product description

1.1 Intended use

Sequre TS-I is a TS series replacement soldering tip with the **I** shape – a thin, sharply pointed tip. The manufacturer recommends it for **precision soldering**, for work in tight spaces between components and for correcting solder bridges when soldering chips. In FPV work it is suitable, for example, for small solder pads on flight controllers (FC), receivers and video transmitters (VTX).

The tip has an **internal heating design**: the soldering tip and the ceramic heating element form a single unit, so both are always replaced together. The tip is intended for the Sequre soldering irons listed by the manufacturer as compatible (see Chapter 1.2). The tip cannot be used on its own without a soldering iron.



TS series tips – the TS-I shape is labelled “TS-I” in the picture (photo: Sequre)

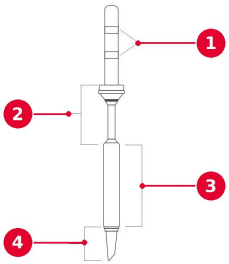
1.2 Technical data and package contents

Product designation	Sequre TS-I (manufacturer code TT001000I)
Tip type	I – pointed, thin tip
Design	internally heated, ceramic heating element; tip and heater form one unit
Material	stainless steel, copper
Colour	silver
Length	approx. 105 mm (TS series: approx. 103–109 mm depending on tip shape, per manufacturer)
Connector diameter	5 mm (indicative manufacturer data)
Version	lead-free according to the manufacturer
Compatible soldering irons	Sequre SI012, SI012 Pro, SI012 Pro Max, SQ-D60 (per manufacturer)
Package contents	1× TS-I replacement tip

Not included in the package: soldering iron (control unit with display), power supply or cable, hex key, stand, cleaning sponge or solder wire.

1.3 Parts description

TS series tips share the same construction and differ only in the shape of the working tip. The manufacturer's drawing shows a different tip shape; the TS-I tip is sharply conical.



Construction of a TS series tip (Sequre drawing)

① **Connector with double contact** – inserted into the soldering iron; it supplies power to the heating element.

② **Heating element connection** – shoulder with a collar that seats against the tip mounting port of the soldering iron.

③ **Heating element** – ceramic heating core inside the tip.

④ **Working tip** – the tinned part used for soldering (sharply conical on the TS-I).

2. Use

2.1 Safety instructions

- During operation the tip heats up to several hundred °C and stays hot for a long time after switching off. **Do not touch the metal parts of the tip** or of the soldering iron near the tip.
- Before replacing the tip, **disconnect the soldering iron from power** and let the tip cool down to room temperature.
- **Do not switch on the soldering iron without a tip installed** – the manufacturer explicitly warns against this.
- Do not work near flammable materials. Always put the soldering iron down in its stand.
- Soldering produces flux fumes. Work in a well-ventilated area or use fume extraction or a small fan.
- Do not knock the soldering iron with the tip against the table to remove solder residue – you may damage both the tip and the soldering iron.
- Do not continue to use a damaged, bent or cracked tip.
- Keep the tip and the soldering iron out of the reach of children.

2.2 Replacing the tip

The exact procedure depends on the soldering iron. Always follow the manual of your soldering iron. On the Sequre SI012 series and SQ-D60 soldering irons, the tip is secured in the mounting port by a screw that is loosened and tightened with the hex key supplied with the soldering iron.

① Switch off the soldering iron, disconnect it from power and let the tip cool down to room temperature.

② Use the hex key to loosen the screw that secures the tip in the mounting port of the soldering iron.

③ Pull out the old tip.

④ Insert the new TS-I tip with its connector fully into the mounting port.

⑤ Tighten the screw again with the hex key so that the tip is held firmly.

⑥ Connect power and check that the soldering iron recognises the tip and does not report a tip error.

※ The SI012 soldering iron supports both long and short tip types. According to the manufacturer's manual, the internal contact plates of the soldering iron must be adjusted when switching between them. Follow the tip installation chapter of the SI012 manual exactly.

2.3 First use – tinning the tip

If the new tip is not pre-tinned at the factory, the manufacturer recommends tinning it before first use. Connect the soldering iron to power. When the tip reaches 260 °C, apply rosin-core solder wire evenly to the tip. Repeat several times until the whole working tip is covered with a layer of solder.

2.4 Soldering

- Set the **lowest temperature** at which you can reliably solder the joint. A high temperature burns off the flux quickly, increases tip oxidation, shortens tip life and increases the risk of thermal damage to components and the printed circuit board.
- Use the thin TS-I tip for small and densely populated joints. For large soldering areas, thick wires and large pads (e.g. power leads) choose a tip with a larger surface – the manufacturer lists the C and D shapes for this purpose.
- Do not press the tip hard – more pressure does not speed up heat transfer but damages the tip surface.
- Do not use the tip as a lever or as a test probe. Bending cracks the surface coating and shortens tip life.
- Use low-activity flux. Highly active fluxes accelerate corrosion of the tip coating.
- During breaks, do not leave the tip hot and idle for a long time. Before putting the soldering iron down, apply a little solder to the tip and place the iron in its stand; switch it off during longer breaks.

2.5 Indicative performance with the SI012 Pro Max

The tip power is determined by the soldering iron and the voltage of the power supply. In the manual of the **SI012 Pro Max** soldering iron, the manufacturer gives the following values for TS type tips:

Supply voltage	Estimated current	Power	Fastest heating from 25 °C to 300 °C
12 V	1.5 A	18 W	35 s
19 V	2.3 A	43 W	15 s
20 V	2.5 A	50 W	13 s
24 V	2.9 A	70 W	8 s
25.2 V (6S)	3 A	75 W	7 s

Values apply to the SI012 Pro Max soldering iron. They may differ for other compatible soldering irons – follow the manual of your soldering iron.

3. Maintenance and troubleshooting

3.1 Cleaning and tip care

- Clean the tip regularly with a **damp cleaning sponge**. First soak the sponge in water and then squeeze it out – a sponge that is too wet or too dry damages the tip.
- After finishing work, wipe the tip and **apply a new layer of solder**. The solder protects the tip from oxidation.
- During long-term continuous use, remove the tip once a week and clean off deposits and oxides.
- To remove black oxides from the tinned part, apply new solder to the tip and wipe it with the sponge. Repeat until the oxides are gone and finally tin the tip again. For checking and cleaning, the manufacturer specifies a set temperature of 370 ± 10 °C.
- **Do not file the oxides or sand them with sandpaper** – you will damage the tip plating and shorten its life.

3.2 When to replace the tip

The tip is a consumable part. Replace it with a new one if it is **deformed, bent or heavily corroded**, if a hole appears in it, or if solder permanently does not stick to the working tip even after cleaning and tinning. Continued use of a damaged tip may damage the workpiece being soldered.

3.3 Troubleshooting

Problem	Possible cause and solution
The soldering iron reports a tip error (on the SI012 series e.g. “C-T” or “Check Tip”)	The tip is not inserted or secured correctly. Disconnect power, let the tip cool down, insert it fully and tighten the screw. If the error persists, replace the tip.
Solder does not stick to the tip	The working tip is oxidised. Clean it as described in Chapter 3.1 and tin it again. If this does not help, replace the tip.
The tip heats up slowly or the joint cannot be heated through	The TS-I tip is too thin for a large soldering area – choose a tip with a larger surface. Also check the power supply according to the soldering iron manual.
The soldering iron does not heat after the tip is installed	Check that the tip is inserted fully and check the power supply of the soldering iron. If the soldering iron still does not recognise the tip, contact the retailer.

4. Information for the EU and Czech Market

The information in this chapter is based on the regulations of the European Union and the Czech Republic. If you use the product in another country, the law of the country in which the product is operated is decisive.

4.1 Importer and responsible person in the EU

The product is placed on the European Union market by the importer stated below, who is at the same time the responsible person within the meaning of Article 16 of Regulation (EU) 2023/988 of the European Parliament and of the Council on general product safety (GPSR).

Importer / responsible person in the EU	Rotorama, s.r.o.
Company ID (IČO)	051 57 692
VAT ID (DIČ)	CZ05157692
Registered office	Okrajová 1351, 674 01 Třebíč, Czech Republic
E-mail	info@rotorama.cz
Phone	+420 252 252 098
Website	www.rotorama.com

4.2 Disposal of electrical equipment



- The crossed-out wheeled bin symbol on the product, its packaging or in the documentation means that at the end of its service life the product **must not be disposed of together with mixed municipal waste**.
- Hand it over at a take-back point for electrical equipment – at a collection yard, at a take-back point of a collective system, or at the retailer when purchasing a new equivalent product. Take-back is free of charge for the end user.
- The obligations under Act No. 542/2020 Coll., on end-of-life products, are fulfilled by the importer through a collective take-back system.
- Proper disposal helps prevent negative impacts on the environment and human health and contributes to the reuse of secondary raw materials.

Through its contractual partner **ASEKOL a.s.**, the company ensures the take-back of waste electrical equipment from households and the separate collection of waste electrical equipment, batteries and accumulators in accordance with the applicable legislation. The customer is entitled to hand over old electrical equipment or a battery or accumulator at any collection point of the above contractual partner. The addresses of these take-back points are listed at www.asekol.cz, www.ecobat.cz and also https://visoh2.mzp.cz/RegistrMistZO/RegistrMistZOPublic/MapaMistZpetOdberu.

5. Warranty and rights arising from defective performance

The rights and obligations of the contracting parties are governed by Czech law, in particular by Act No. 89/2012 Coll., the Civil Code, and Act No. 634/1992 Coll., on consumer protection.

- The seller is liable to the buyer for the product being free of defects on receipt. If the buyer is a consumer, a defect may be notified **within two years of receipt** of the product (Section 2165 of the Civil Code).
- If a defect appears within **one year** of receipt, the product is deemed to have been defective already at the time of receipt (Section 2161(5) of the Civil Code).
- When purchasing online, a consumer has the right to **withdraw from the contract within 14 days** of receiving the goods without giving a reason (Section 1829 of the Civil Code).
- Claims should be made with the retailer from whom you purchased the product. The importer's contact details are given in Chapter 4.1.
- The competent body for out-of-court settlement of consumer disputes is the **Czech Trade Inspection Authority**, Štěpánská 796/44, 110 00 Prague 1, www.coi.cz.