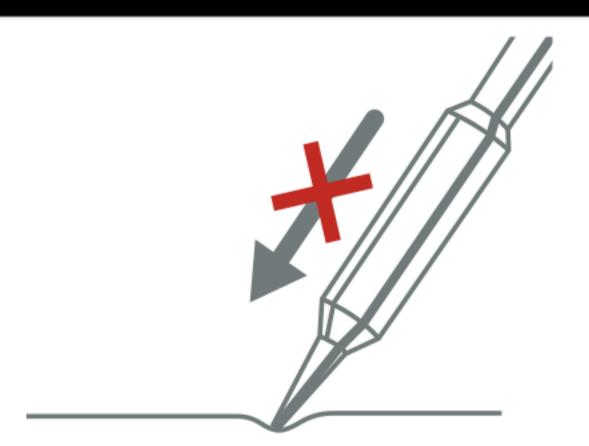


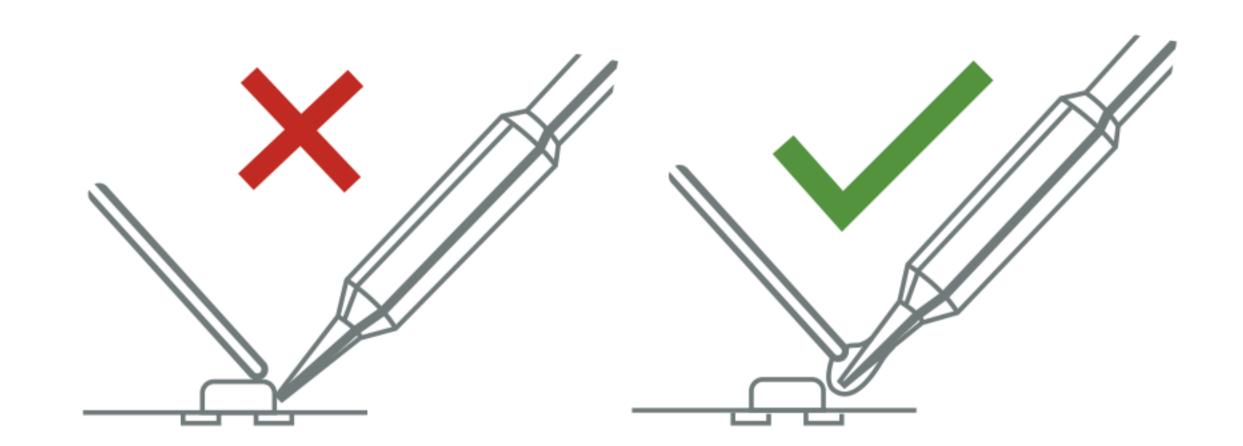
Most common mistakes in handsoldering

Excessive pressure



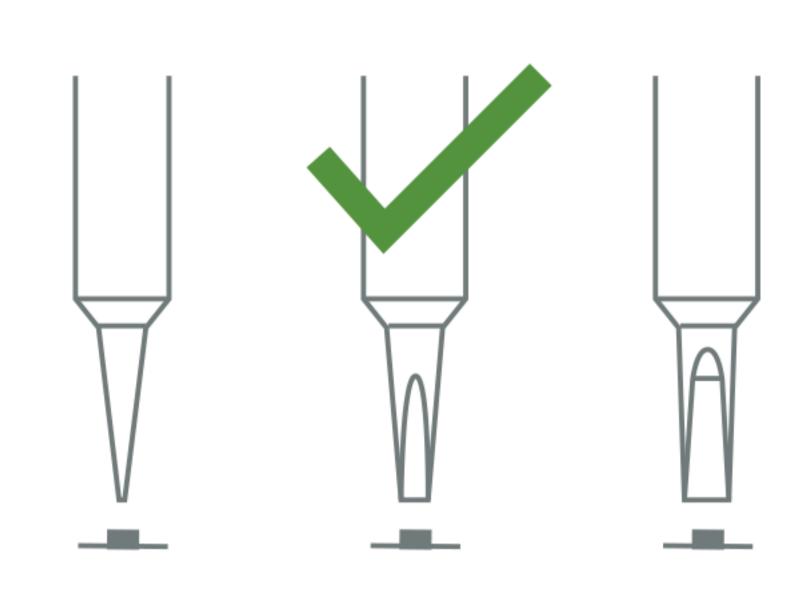
- Avoid making pressure to the tip during soldering process.
- Use thermal efficient tools and keep tips clean of oxidation.

2 Improper thermal bridge



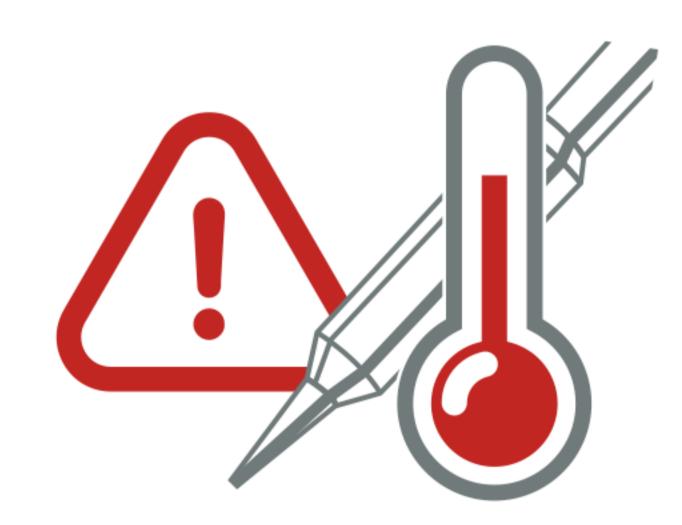
- Do not apply the soldering iron first to the connection and then feed the solder wire.
- Apply a small amount of solder wire to the tip before touching the connection.

3 Wrong tip size



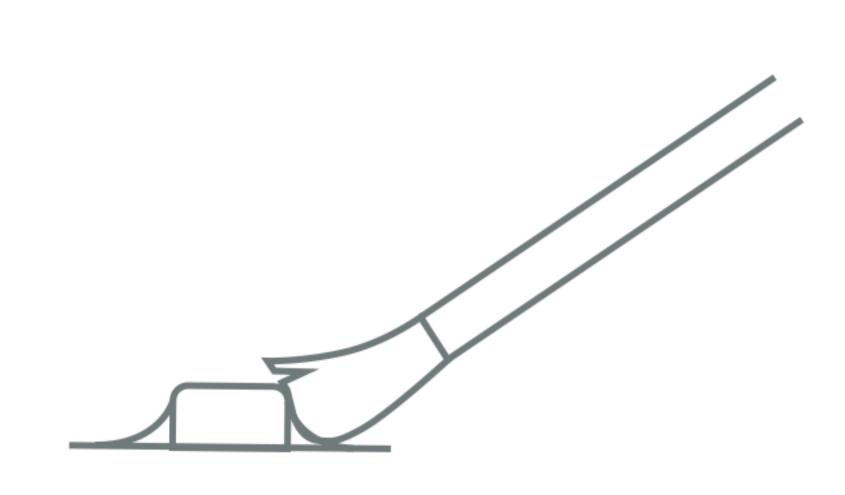
- Do not use a tip smaller or bigger than the component/pad.
 - It can cause incomplete solder flow, a cold solder joint, board damage...
- Select the tip that has the greater contact area.
 - Use the largest tip possible for each solder joint.

4 Excessive temperature



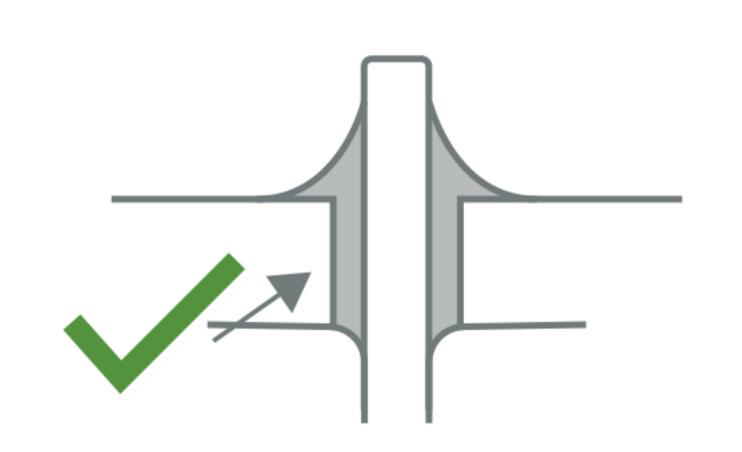
- Do not increase tip temperature.
 - It can cause lifted lands, overheated solder joints and board damage.
- Work with the lowest possible tip temperature. If the solder joint needs more heat, use a preheater.

5 Improper flux use



- Do not use aggressive flux unnecessarily.
 - It may cause corrosion and electromigration.
- Use the flux contained in the solder wire. Provide external flux if necessary, with a pen or needle dispenser.

6 Unnecessary rework



- Do not use surface appearance of the solder joint as a criterion.
- Perform touch-up or rework operation only when necessary.