

# ENGEL

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Bedienungsanweisung  
Operating instructions  
Instructions de service  
Bruksanvisning



**ENGEL-LÖTER 60 S/100 S**  
**ENGEL-SOLDERING GUN 60 S/100 S**  
**APPAREIL A SOUDER ENGEL 60 S/100 S**  
**ENGEL LÖDPISTOL 60 S/100 S**

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We hope you enjoy your ENGEL Soldering Gun and kindly ask you to read the following important information before you use the tool.

### Attention

Please be very careful when working with the tool to prevent accidents such as burning yourself or your surroundings.

Never touch the tip when the switch is pressed down.

When working with soldering tin, the generating fume shall not be inhaled.

Do not lay against any surface after using until the tip is cooled down.

Always unplug tool when not being used.

### Operation

1. Unscrew the binding screws to hold the soldering tip.
2. Insert soldering tip.
3. Tighten binding screws carefully.
4. The label on the tool shows the proper voltage.
5. When the switch is pressed the light bulbs in the tool lighten the soldering spot.

The proper working temperature will be reached after approx. 6 secs. of preheating time. This can be checked best by touching the solder with the hot tip.

If the required temperature is reached hold tip to soldering spot and bring some solder between tip and joint to provide better heat transfer.

After heating add further solder to the soldering point.

When the solder is well distributed, remove the tip and turn-off the tool. If you followed these steps you should have a perfect, shiny solder joint.

6. The soldering tip is protected against wear and oxidation and therefore must never be touched-up with a file or similar tool.
7. If necessary the soldering tip shall be cleaned with a viscose sponge or cloth while still warm.
8. To avoid excessive accumulation of tin at the soldering spot we recommend to use solder not thicker than 2 mm  $\varnothing$ .
9. We recommend to use "soft solder L-Sn 60 Pb with flux **core** F-SW 26 in accordance with DIN 8511" which is available in all professional stores.
10. The connecting cable is to be exchanged only by the manufacturer or his servicing agent, for safety reasons.

### Explanation referring to the label on the tool

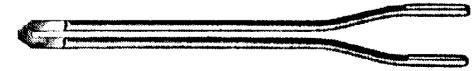
Do not hold the tool in "ON" position continuously, to prevent abnormal high tip temperature. Allow the tip to cool down during operation.

The indication "intermittent operation 1/4 min. means the following. The tool is not dimensioned for continuous operation. After 1/4 minute of heating respectively working with the tool it shall cool down for 3/4 minutes.

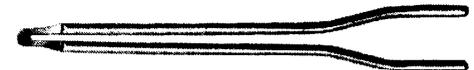
This appliance has a polarized plug (one blade is wider than the other). To reduce the risk of electric shock, this plug is intended to fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician. Do not modify the plug in any way.

### SPARE PART

Type 60 WB, soldering area capability up to 1 mm<sup>2</sup>



Type 60 WS, soldering area capability up to 2 mm<sup>2</sup>



Type 100 WB, soldering area capability up to 12 mm<sup>2</sup>



### GUARANTEE CERTIFICATE

ENGEL warrant this appliance (with exception of the soldering tip) for a period of one year commencing with the date of first sale to the end user. The guarantee is given against defects in material and workmanship. It is voided by improper operation, disassembly, repair or alteration by owner or unauthorized third parties.