

Built from our customers' best ideas.



The new Weller® WX 2 control unit.

With antistatic touchscreen, intelligent sleep mode, and multi-language display.

By the way, it can solder too.

The name Weller® has long stood for innovative solutions in soldering. Now, Weller has achieved yet another milestone with the new WX 2 control unit.

The WX 2 is an innovation that we owe in great part to input from our customers.

Many of its features grew from customer suggestions and ideas compiled by our customer service and distribution partners from around the world.

The WX 2 is designed for ease of use ... from its uniquely

responsive touchscreen to its exceptionally intuitive user interface. In fact, once you've used the WX 2 there's a good chance you'll never want to use anything else.

Behind the impressive design of the WX 2 lies a powerful and easy-to-use two-channel soldering system. A variety of connectivity options, intelligent soldering tools and a number of brand new features make the WX 2 the ideal tool for today's requirements when it comes to soldering work on LED backplanes, solar applications, and micro soldering joints.

With the WX 2, Weller has raised the bar for soldering performance once again.



Weller®



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ESD safe

WX

With so many benefits, it's easiest to remember just two things: new and better.

The new WX 2 combines an elegant new design with solid improvements in performance and ease of use. It offers the perfect combination of features to help your operation become more efficient and productive.



240 W Power Supply

- Very high capacity • Quick heating-up time
- Ability to use of 200 W tools • Simultaneously powers two 120 W tools



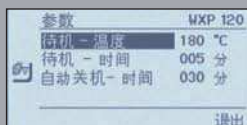
Robust Touchscreen

- Patented, capacitive touchscreen made of real glass • Antistatic
- Chemical resistant • Temperature resistant



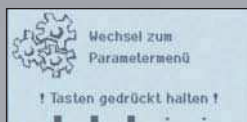
Intuitive Use

- Turn-and-click wheel with enter key and finger guide
- Six touch keys



Multiple Language Selection

- Menu navigation options include English, German, French, Italian, Spanish, Portuguese, and Mandarin Chinese
- Other languages also available



Graphic LC Display

- Text and graphic elements can be viewed from all angles
- Blue LED background lighting for improved legibility



Versatile Connectivity Options

- Standard digital connection
- Decoupled robot connection
- Manages fume extraction units, heating plates, programmable logic controller (PLC)
- Temperature, speed and status shown in the WX display



WX Tool Connection

- Positive tool recognition
- Digital data transfer
- Malfunction-resistant
- Locking ring connection
- Separate pins 12 V and 24 V



Multi-purpose USB Port

- Fast, localized firmware updates, parameter configuration and logging capabilities via USB stick



Intelligent Tools

- Pencil has built-in analog-to-digital converter and data memory read
- Re-calibrated pencil eliminates need to calibrate soldering station



Optimized, Spring-loaded Tip Barrel (WXP 120 only)

- Spring system provides steady contact pressure
- Antistatic soft grip
- Tips can be changed without tools



Energy-saving Sleep Mode

- Automatic standby mode activated by a sensor in handle that detects when device is not in use
- No special stop-and-go rest required
- Blue ring status indicator light (WXP 120 only)
- Automatic standby mode sensor also controls all connected accessories such as fume extractors and heating plates



WX compatible soldering accessories: A total system.

The production power and flexibility of the WX 2 control unit is optimized by a wide selection of WX tools and accessories, both new and existing, that are compatible with the WX 2.

Soldering tools

All WX tools have an integrated sensor system, customized bit calibration with no base station required, signal reader built into the handle, and internal memory. And all come with standard Weller features such as ergonomic design, extremely high precision, and short heating times.

NEW!



WXP 200 Soldering iron, 200 W, 24 V

The most powerful pencil among the new WX tools. Ideal for soldering work requiring extreme heat, e.g. LED backplanes, solar applications. Uses XHT series tips.

Order No. 0052920599

Order No. 0052920699 (with WDH31 Stand)

NEW!



WXP Soldering iron, 120 W, 24 V

This 120 W model is perfect for soldering either large or small parts requiring high temperatures. Uses XT series tips.

Order No. 0052920199

Order No. 0052920299 (with WDH10 Stand)

NEW!



WXMP Micro soldering iron, 40 W, 12 V

Very fine, thin soldering pencil, best suited for work under a microscope. Built-in active soldering tip provides dynamic performance. Uses RT series tips.

Order No. 0052920399

Order No. 0052920499 (with WDH50 Stand), tip sold separately

NEW!



WXMT Micro tweezers, 40 W, 12 V

Very fine, thin tweezers. Ideal for soldering and desoldering very small SMD parts. Uses RTW series tip cartridges.

Order No. 0051317799

Order No. 0051317899 (with WMRTH Stand),
tweezer cartridge sold separately



Soldering tips

Weller provides a wide selection of different soldering tips for every application imaginable to go along with the new WX tools. The conical shape of the new soldering tips for the WXP 120 soldering pencil allows for the best possible sensor position, maximizing sensitivity.



Safety rests

Trusted Weller WDH 10, WDH 31, WDH 50 and WDH 60 safety rests are WX compatible and come with a built-in dry cleaning system.



Fume extraction solutions

The Weller® Zero-Smog® WFE 2S, WFE 4S, WFE 8S and WFE 20D fume extraction systems put an end to pollution from soldering fumes or vapors from adhesives. The optimized interaction between turbines, filter units, and electronic control provides an air purity level of almost 100%. A wide range of matching accessories, such as hose connections and extraction arms, is also available. Weller Zero-Smog systems can be connected directly using the WX port and controlled via the WX display.



Heating plates

Weller WHP 1000 and WHP 3000 heating plates are used to preheat electronic components. They heat up the area under the part to be soldered, reducing the heat required from above and minimizing the risk of thermal damage due to heating from one side. The Weller® heating plates can be connected directly using the WX port and controlled via the WX display.

Additional Ordering Information:	
Order No.	Description
WX2	Power Unit, Dual, Digital, 200W, 120V
WX2020	Soldering Station with 2 WXP 120 pencils and stands, 120V
WX2021	Soldering Station with WXMP pencil and WXMT tweezers, 120V
T0054480199	XHT D Chisel Soldering Tip, 5.0 mm wide X 1.2 mm thick, for WXP200 Pencil
T0054480299	XHT E Chisel Soldering Tip, 7.6 mm wide X 1.5 mm thick, for WXP 200 Pencil
T0054480499	XHT C Chisel Soldering Tip, 3.2 mm X 1.2 mm thick, for WXP 200 Pencil

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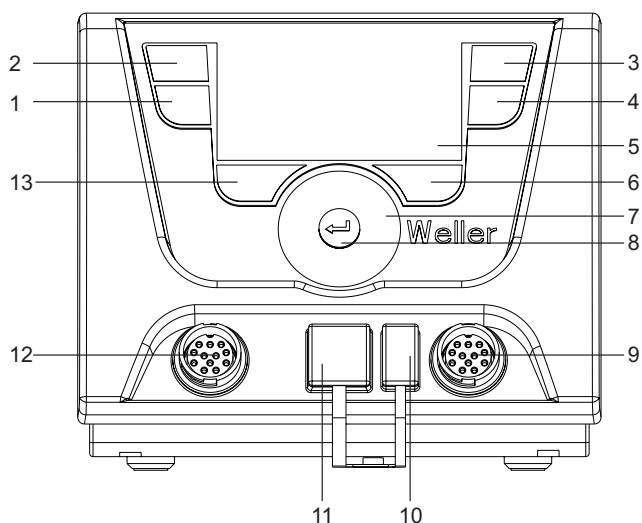
WX 2



WX 2

Hardware Overview

- 1 Control button, left
- 2 Control button, left
- 3 Control button, right
- 4 Control button, right
- 5 Display
- 6 Selection button (set-point temperature, exit parameter menu, auxiliary device parameters)
- 7 Turn-and-click wheel
- 8 Enter button
- 9 Right receptacle for soldering tool
- 10 USB port
- 11 RS232 port
- 12 Left receptacle for soldering tool
- 13 Selection button (nominal temperature, auxiliary device parameters)
- 14 Equipotential bonding bush
- 15 RS232 port
- 16 Mains connection
- 17 Mains fuse
- 18 Power switch



Display Overview

- 19 AUTO-OFF
- 20 Standby temperature deactivation
- 21 Power indicator
- 22 Left (or right) configuration display
- 23 Fixed temperature 1, right
- 24 Fixed temperature 2, right
- 25 Auxiliary device (rear port)
- 26 Active set-point/ fixed temperature, right
- 27 Lock
- 28 Temperature units °F/°C
- 29 Actual tool temperature (left, right)
- 30 Active set-point/ fixed temperature, left
- 31 Auxiliary device (front port)
- 32 Fixed temperature 1, left
- 33 Fixed temperature 2, left

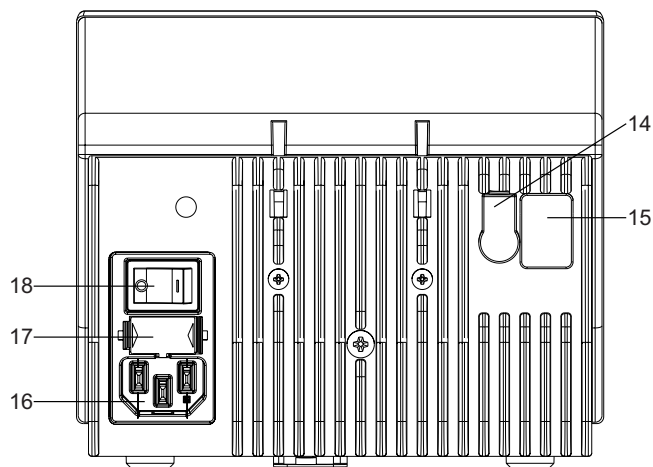


Fig. 1: Hardware Overview

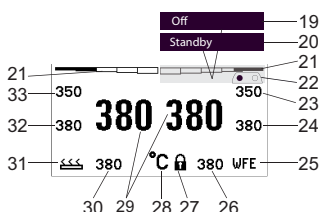


Fig. 2: Display Overview

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1 About these instructions

Thank you for placing your trust in our company by purchasing the Weller WX 2 Soldering Station. The device has been manufactured in accordance with the most rigorous quality standards, which ensure that it operates perfectly.

These instructions contain important information which will enable you to commission, operate and service the WX 2 Soldering Station safely and correctly as well as to rectify simple problems yourself.

- ▷ Read these instructions and the accompanying safety information carefully prior to initial operation and before starting work with the WX 2 Soldering Station.
- ▷ Keep these instructions in a safe place and so that they are easily accessible by all users.

1.1 Applied directives

The Weller microprocessor-controlled WX 2 Soldering Station conforms to the specifications of the EC Declaration of Conformity with Directives 2004/108/EC and 2006/95/EC.

1.2 Other applicable documents

- Operating instructions of the WX 2 Soldering Station
- Safety information booklet accompanying these instructions
- Operating instructions of the connected tool (e.g. WXP 120, WXP 200 WXMP or WXMT)

2 For your safety

The WX 2 Soldering Station repair system has been manufactured in accordance with state-of-the-art technology and acknowledged regulations concerning safety. There is nevertheless the risk of personal injury and damage to property if you fail to observe the safety information set out in the accompanying booklet and the warnings given in these instructions. Always pass on the WX 2 Soldering Station to third parties together with these operating instructions.

2.1 Intended use

Use the WX 2 Soldering Station only for the purpose indicated in the operating instructions, i.e. for soldering and desoldering under the conditions specified herein. Intended use of the WX 2 Soldering Station also includes the requirement that you

- adhere to these instructions,
- observe all other accompanying documents,
- comply with national accident prevention guidelines applicable at the place of use.

The manufacturer will not be liable for unauthorised modifications to the device.

3 Included in delivery

- Soldering Station WX 2
- Power cable
- Operating instructions of the WX 2 Soldering Station
- Safety information booklet accompanying these instructions

4 Device description

The Weller WX 2 is a versatile repair station for professional repair work on state-of-the-art electronic modules in industrial manufacturing, repair workshops and laboratories.

The digital control electronics in combination with superior sensor and heat-transfer technology guarantee precise temperature control at the soldering tip. High-speed measured-value acquisition gives maximum temperature precision and optimal temperature response under load.

The temperature can be adjusted within a range of 0 °C – 550 °C (150 °F – 999 °F) for soldering tools and microtools. Specified and actual values are displayed digitally. There are four buttons (2 per tool) for saving fixed temperature presets.

The Weller WX 2 Soldering Station has the following functions and features:

- Modern operating concept and navigation
- Controlled using sensor buttons
- Multilingual menu navigation
- LC graphic display with blue LED backlighting
- Suitable for all tools up to 200 W or simultaneous use of 2 x 120 W soldering irons
- No calibration needed
- Two connections for soldering tools with integrated parameter memory (e.g. for fixed temperature)
- Automatic tool detection and activation of soldering-iron-specific control parameters
- Digital temperature control
- Antistatic device design in accordance with ESD safety
- Different equipotential-bonding possibilities on the device (standard configuration: hard grounded)
- Settings for soldering-iron-specific parameters such as: standby temperature; standby time ; AUTO OFF time; offset; control response; process window; robot output
- Settings for station-specific parameters such as: language; temperature version °C/°F; password; touchtones on/off; LCD contrast; LCD background brightness; screen saver
- Two connections for peripheral devices (e.g. WFE, WHP)
- Digital and optically decoupled robot connection
- USB port for memory stick (for firmware updates, configuration and monitoring)

Technical data of WX 2

Dimensions	L x W x H (mm): 170 x 151 x 130 L x W x H (inches): 6.69 x 5.94 x 5.12
Weight	approx. 3.2 kg
Mains supply voltage	230 V, 50 Hz
Power consumption	200 W (240 W)
Safety class	I, antistatic housing
Fuse	Overcurrent trip T2 A
Temperature range	Adjustable from 50 °C – 550 °C (150 °F – 999 °F) Controllable temperature range is tool-dependent
Temperature accuracy	± 9 °C (± 17 °F)
Temperature stability	± 2 °C (± 4 °F)
Equipotential bonding	Via 3.5 mm pawl socket on back of device
Housing material	Aluminium base with antistatic black (AMS 70002) coating; antistatic PA plastic housing
Operator panel material	Antistatic-coated real glass
Operator panel dimensions	74 x 38 mm
Resolution	255 x 127 (128) dots
Backlighting	4 LEDs

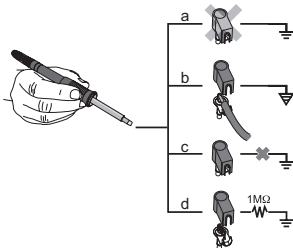


Fig. 3

Equipotential bonding

Four variants are possible by connecting the 3.5 mm jack socket (14) differently:

- (a) Hard-grounded: supplied without plug.
- (b) Equipotential bonding: with plug, equaliser at centre contact.
- (c) Floating: with plug
- (d) Soft-grounded: with plug and soldered resistor. Grounded through selected resistor.

USB port

The WX 2 control unit comes with a front-side USB port (10) for installing firmware updates, configuration and monitoring. The USB port (10) accepts any commercial USB memory stick.

5 Starting up the device

WARNING! Electric shock and risk of burns



Connecting the control unit incorrectly poses a risk of injury due to electric shock and can damage the device. Risk of burns from the soldering tool while the control unit is operating.

- ▷ Read the enclosed instructions, the safety instructions included in these operating instructions as well as the instructions for your control unit all the way through and observe the specified precautionary measures before putting the control unit into operation.
- ▷ Always place the soldering tool in the safety holder when not in use.

Please observe the overview diagrams (Fig. 1 and Fig. 2).

Note

Only soldering tools with suitable connecting plugs can be connected to the WX 2 Soldering Station. For details of tools which can be connected to WX 2, please refer to the list of accessories on page 19.

1. Carefully unpack the device.
2. Connect the soldering tools as follows:

Insert the soldering tool with connector into the connecting socket (9/12) on the control unit and turn clockwise to lock.

3. Place the soldering tool in the holder.
4. Check to make sure that the mains supply voltage matches that indicated on the rating plate and that the mains power switch (18) is off.
5. Connect the control unit to the mains supply (16).
6. Switch on the device at the mains power switch (18).

The start-up screen is shown on the display (see Fig. 4).

After switching on the device, the microprocessor carries out a self-test and reads out the values of the parameters stored in the tool.

When a soldering iron is connected, the display shows the set temperature (set-point, **30/26**), the temperature units °C/°F (**28**), the actual value (actual tool temperature) (**29**) and the saved fixed temperatures (**33/32/23/24**).



Fig. 4

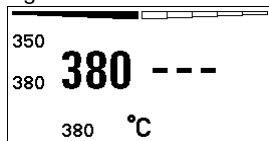


Fig. 5

6 Operating the device

6.1 Operating principle

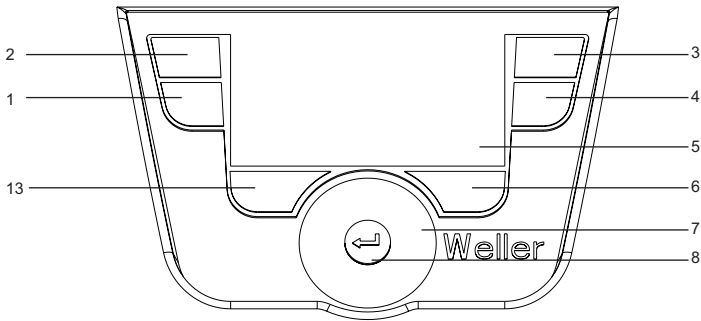


Fig. 6: Control elements on the WX 2

Keys	Operation	Function
Control key 1, 2, 3, 4	Briefly press key 1, 2, 3 or 4 once	The fixed temperature (23/24/32/33)* becomes the active set-point temperature (26/30)*. (tool channel: key 1, 2 = left; key 3, 4 = right) – Scroll within the Parameter menu
	Press and hold down key 1, 2, 3 or 4 for 3 sec.	– The active set-point temperature is saved as the fixed temperature under the key being pressed (1, 2, 3 or 4).
	Press and hold down keys 1 and 2 or 3 and 4 simultaneously	– 1 and 2 = left channel (12)* is disabled or opened – 3 and 4 = right channel (9)* is disabled or opened
Press and hold down keys 13 and 1 or 13 and 2 or 2	keys 13 and 1 or 13 and 2 simultaneously	– Open Parameter menu
Press and hold down keys 6 and 3 or 6 and 4 or 4	keys 6 and 3 or 6 and 4 simultaneously	– Open Parameter menu
Selection key 6, 13	Briefly press key 6 or 13 once	– Select auxiliary device, this being a requirement for opening the parameter settings of the auxiliary device (e.g. WFE)
	Press and hold down keys 6 and 13 for 3 sec.	– The set-point temperature window opens
Key 6	Briefly press key 6 once	– Exit parameter menu
Turn-and-click wheel 7	Move your finger over the turn-and-click wheel	– Select/set value – Navigate within a menu
	Click left or right	– The set-point temperature window opens for the soldering tool connected on the left/right
Enter key 8	Briefly press key 8 once	– Confirm value/selection

*) see also overview diagrams (Fig. 1 and Fig. 2).

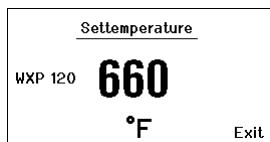


Fig. 7

6.2 Example 1: adjusting the temperature

1. Press and hold down the required selection key **6** or **13** for 3 sec. The display changes over to the set-point temperature (see Fig. 7).
2. Set the required set-point temperature with the turn-and-click wheel (**7**).
3. Confirm the value with the Enter key (**8**).
4. Exit the parameter menu with key **6**.

Note If no entry is made for 10 seconds, the parameter menu is exited automatically.

6.3 Example 2: Call up parameter menu and select menu option

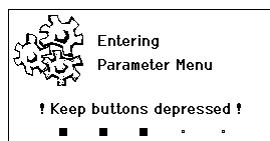


Fig. 8

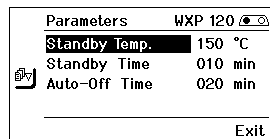


Fig. 9

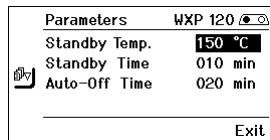


Fig. 10

1. Press and hold down keys **13** and **1** or **13** and **2** or **6** and **3** or **6** and **4** simultaneously. While the device is changing over to the parameter menu, the display shows the following message text (see also Fig. 8): "Changing over to parameter menu" "Hold down keys".
2. Select menu option with the turn-and-click wheel (**7**). The selection is shown with a black background (e.g. "Standby Temp.", see Fig. 9).
3. Confirm the selection with the Enter key (**8**). The display changes over to Selection/Entry mode (see Fig. 10).
4. Make your setting with the turn-and-click wheel (**7**).
5. Confirm the setting with the Enter key (**8**). The setting is made and the parameter menu is displayed.
6. Select a new menu option with the turn-and-click wheel (**7**) and set the required value (see steps 3.-5.)
– or –
exit the parameter menu with key **6**.

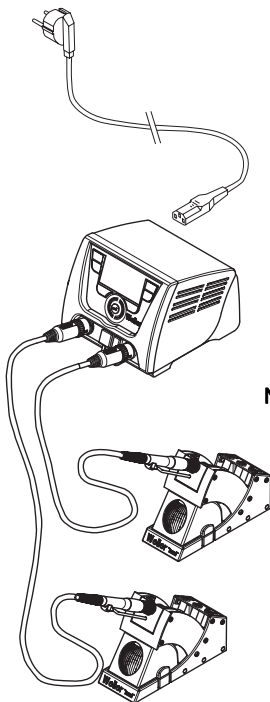


Fig. 11: WX 2 with connected soldering tool

Off		Off	
350			350
380	—	—	380
	380 °C		380

Fig. 12

6.4 Connecting the soldering tool

Please observe the overview diagrams (Fig. 1 and Fig. 2).

1. Check to see if the required soldering tool is correctly connected (see "Starting up the device" on page 7).
2. Switch on the device at the mains power switch (18).

The display shows the actual temperature value (29), the set-point temperature (26/30) and the fixed temperatures (23/24 or 32/33) of the connected tool. The set-point temperature and fixed temperatures are stored in the tool. The actual temperature value increases to the set-point temperature (= soldering tool is heated up).

Note If you want to connect two tools simultaneously to WX 2, please note the overload cut-out.

Note

You will find further connection versions on page 21.

Please adhere to the operating instructions of the connected devices.

Overload cut-out (240 W)

If two tools are simultaneously connected to WX 2 and together have a power demand of greater than 240 W, an overload cut-out will occur (see Fig. 12).

Only one tool/channel can be used at a time.

Activating the soldering tool/channel:

- ▷ Press the required control keys 1 and 2 (left channel (12)) or 3 and 4 (right channel (9)) simultaneously.
- or —
- Remove the required soldering iron from its holder.

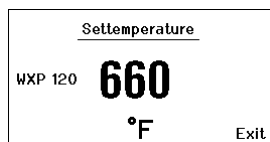


Fig. 13

6.5 Setting the temperature individually

Please observe the overview diagrams (Fig. 1 and Fig. 2).

Setting the fixed temperature

1. Press the required selection key **6** or **13**.
The current set-point temperature is shown on the display (see Fig. 13).
2. Set the required set-point temperature with the turn-and-click wheel (**7**).
3. Confirm the value with the Enter key (**8**).
4. Press and hold down the required control key **1, 2, 3** or **4** for 3 sec. in order to save the current set-point as a fixed temperature (under the key being pressed).

Note You can find further information about the intelligent tool (e.g. fixed temperature, factory settings) in the relevant operating instructions.

Select the temperature with control keys 1, 2, 3 and 4

The temperature set-point can be set by selecting two preset temperature values (fixed temperatures) per tool.

- ▷ Press the required temperature key **1, 2, 3** and **4**.
The tool adjusts to the required temperature.

6.6 Switching the channel on/off

Please observe the overview diagrams (Fig. 1 and Fig. 2).

Left channel (12)

- ▷ Press control keys **1** and **2** simultaneously to switch the tool on/off.

Right channel (9)

- ▷ Press control keys **3** and **4** simultaneously in order to switch the tool on/off.

Note The tool is switched on as soon it is removed from the holder. A motion sensor is integrated in the tool.

Channel disabled

If a channel is disabled, the display will read "OFF" (19).

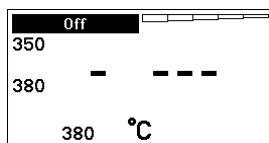


Fig. 14

6.7 Soldering and desoldering

- ▷ Carry out soldering work as directed in the operating instructions of your connected soldering tool.

Handling soldering tips

- Coat the tin-plated soldering tip with solder when heating the iron for the first time as this will remove any oxide films or impurities from the soldering tip that have accumulated during storage.
- During pauses between soldering and before storing the soldering iron, ensure that the soldering tip is well-coated.
- Do not use aggressive fluxing agents.
- Always make sure that the soldering tip is seated correctly.
- Select the lowest possible working temperature.
- Select the largest possible soldering tip shape for the application: approx. as large as the soldering pad.
- Coat the soldering tip well to ensure efficient heat transfer between the soldering tip and soldering point.
- Switch off the system if you do not intend to use the soldering iron for lengthy periods or activate the Weller temperature reduction function.
- Wet the tip with solder if you do not intend to use the soldering iron for a lengthy period of time.
- Apply the solder directly at the soldering point, not on the soldering tip.
- Change the soldering tip using an appropriate tool.
- Do not subject the soldering tip to physical force.

Note The control units have been adapted to hold a medium-sized soldering tip. Discrepancies may occur if the tip is changed or a different shaped tip is used.

7 Setting parameters via the parameter menu

The parameter menu is subdivided into two areas:

Parameter

Setting options:

- Standby temperature
- Standby time (temperature deactivation)
- AUTO OFF time (automatic switch-off time)
- Offset (temperature offset)
- Control response
- Process window

Station parameters

Setting options:

- Language
- Temperature version °C/°F (temperature units)
- Password (lock function)
- Touchtones on/off
- LCD contrast
- LCD background brightness
- Screen saver

7.1 Set parameters

Please observe the overview diagrams (Fig. 1 and Fig. 2).

Setting the standby temperature

Note The soldering tools have a usage detector (sensor) in the handle which automatically starts the cooling cycle when the soldering tool is not in use.

You will find further information about the intelligent tool in the relevant operating instructions.

The standby temperature is automatically set after a temperature deactivation.

1. Call up the parameter menu.
2. Select the menu option **Standby temperature**.
3. Set the standby temperature set-point with the turn-and-click wheel (7).
4. Confirm the value with the Enter key (8).
5. Exit the parameter menu with key 6.

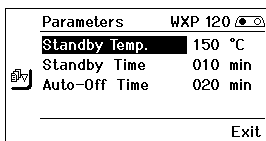


Fig. 15

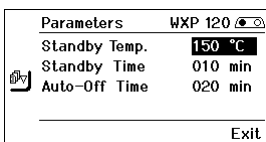


Fig. 16

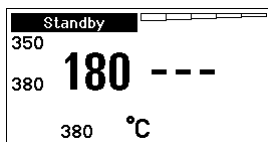


Fig. 17

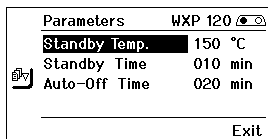


Fig. 18

Set the temperature deactivation value (standby time)

When the soldering tool is not in use, the temperature is reduced to the standby temperature after the set standby time has elapsed. Standby mode is indicated as a flashing actual value and the display reads "Standby" (20).

Press control key **1, 2, 3** or **4** to exit Standby mode. The sensor integrated tool detects the change in state and deactivates Standby mode as soon as the tool is moved.

Setting the standby time:

1. Call up the parameter menu.
2. Select and confirm the menu option **Standby time**.
3. Set the required standby time with the turn-and-click wheel (7).

The following standby settings are possible:

- "OFF" = "0 min": standby time is deactivated (factory setting)
- "ON" = "1-99 min": standby time, individually adjustable

4. Confirm the value with the Enter key (8).

Select further setting parameters in the menu

or

exit the parameter menu with key **6**.

Note In the case of soldering work with low heat requirements, the reliability of the standby function may be impaired.

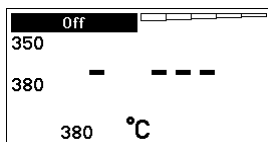


Fig. 19

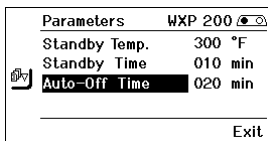


Fig. 20

Setting the automatic switch-off time (AUTO-OFF)

When the soldering tool is not in use, the soldering tool heater is switched off when the AUTO OFF time expires.

Temperature deactivation is performed independently of the set standby function. The actual temperature is indicated by flashing LED and serves as a residual heat display. The display reads "OFF" (19).

1. Call up the parameter menu.
2. Select and confirm the menu option **AUTO-OFF time**.
3. Set the required AUTO-OFF time with the turn-and-click wheel (7).

The following AUTO-OFF time settings are possible:

- "OFF" = "0 min": AUTO OFF function is deactivated (factory setting)
- "ON" = "1-999 min": AUTO-OFF time, can be set individually.

4. Confirm the period with the Enter key (8).

Select further setting parameters in the menu or

exit the parameter menu with key **6**.

Note To reset the STANDBY and AUTO-OFF modes:

Press control key **1, 2, 3** or **4** (if no tool holder is in use) or remove the soldering tool from the holder.

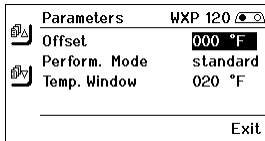


Fig. 21

Setting the temperature offset

The actual soldering-tip temperature can be adapted by entering a temperature offset around $\pm 40\text{ °C}$ ($\pm 72\text{ °F}$).

1. Call up the parameter menu.
2. Select and confirm the menu option **OFFSET**.
3. Set the required OFFSET temperature with the turn-and-click wheel (7).
4. Confirm the value with the Enter key (8).

Select further setting parameters in the menu or exit the parameter menu with key 6.

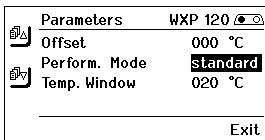


Fig. 22

Setting the control response

The function determines the heating characteristics of the soldering tool to achieve the set tool temperature.

1. Call up the parameter menu.
2. Select and confirm the menu option **Control response**.
3. Set the required control function with the turn-and-click wheel (7).

The following settings are possible:

- "standard": adapted (medium) heating (factory setting)
- "soft": slow heating
- "aggressive": rapid heating

4. Confirm the setting with the Enter key (8).

Select further setting parameters in the menu or exit the parameter menu with key 6.

Setting the process window

The temperature range set in the process window determines the signal response of the floating switching output.

1. Call up the parameter menu.
2. Select and confirm the menu option **Process window**.
3. Set the required temperature range of the process window with the turn-and-click wheel (7).
4. Confirm the value with the Enter key (8).

Select further setting parameters in the menu or exit the parameter menu with key 6.

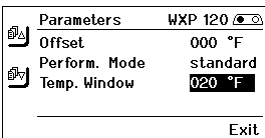


Fig. 23

Note On tools with an LED ring light (e.g. WXP 120), the process window defines the illumination characteristics of the LED ring light.

- If the LED is continuously illuminated, this means that the preselected temperature has been reached or that the temperature is within the predetermined process window.
- A flashing LED indicates that the system is heated or that the temperature is outside the process window.

7.2 Setting the station parameters

Please observe the overview diagrams (Fig. 1 and Fig. 2).

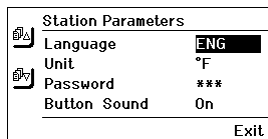


Fig. 24

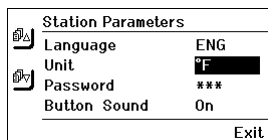


Fig. 25

Selecting the menu navigation language

1. Call up the parameter menu.
2. Select and confirm the menu option **Language**.
3. Set the required language with the turn-and-click wheel (7).
4. Confirm the value with the Enter key (8).

Changing the temperature units display

1. Call up the parameter menu.
2. Select and confirm the menu option **Temperature units °C/°F**.
3. Set the required temperature units with the turn-and-click wheel (7).
4. Confirm the setting with the Enter key (8).

Switching the lock function on/off

After switching the lock function on, only the fixed temperature keys (= control keys 1, 2, 3 and 4) can be operated on the soldering station. All other settings are disabled until the repair station is unlocked again.

Note If you want only one temperature value to be selectable, the control keys 1, 2 and/or 3, 4 (fixed temperature keys) must be set to the same temperature value.



Fig. 26



Fig. 27

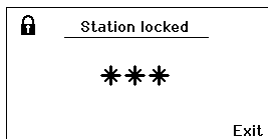


Fig. 28

Lock the soldering station:

1. Call up the parameter menu.
2. Select and confirm the menu option **Password**.
3. Set the required three-character locking code (between 001-999) with the turn-and-click wheel (7) (see Fig. 26).
4. Confirm the value with the Enter key (8).

The lock is active (the display shows a lock symbol (27), see also Fig. 27).

Unlocking the soldering station

1. Call up the parameter menu.
If the lock function is active, the password menu item opens automatically. Three stars (***) are shown on the display.
2. Set the three-character locking code using the turn-and-click wheel (7).
3. Confirm the code with the Enter key (8).

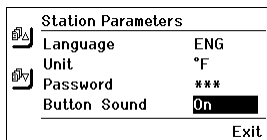


Fig. 29

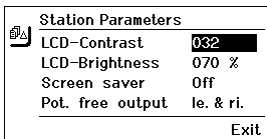


Fig. 30

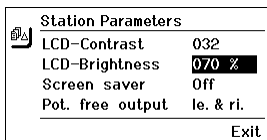


Fig. 31

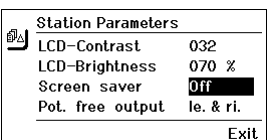


Fig. 32



Fig. 33

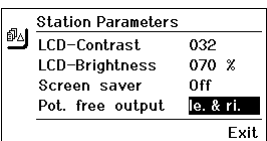


Fig. 34

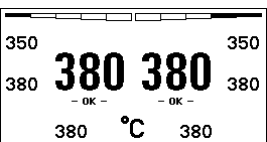


Fig. 35

Switching touchtones on/off

1. Call up the parameter menu.
2. Select and confirm the menu option **Touchtones**.
3. Switch touchtones on or off with the turn-and-click wheel (7).
4. Confirm the setting with the Enter key (8).

Setting the LCD contrast

1. Call up the parameter menu.
2. Select and confirm the menu option **LCD contrast**.
3. Set the required LCD contrast value with the turn-and-click wheel (7).
4. Confirm the value with the Enter key (8).

Setting the LCD background brightness

1. Call up the parameter menu.
2. Select and confirm the menu option **LCD background brightness**.
3. Set the required LCD background brightness with the turn-and-click wheel (7).
4. Confirm the value with the Enter key (8).

Setting the screen saver

1. Call up the parameter menu.
2. Select and confirm the menu option **Screen saver**.
3. Switch the screen saver on or off with the turn-and-click wheel (7).
4. Confirm the value with the Enter key (8).

Defining the robot output

The robot output is on the back of the device (15). The pin assignments of the robot output are shown on page 21. The left tool channel is assigned to the robot output in the basic settings, but the assignments can be changed manually.

1. Call up the parameter menu.
2. Select and confirm the menu option **Robot output**.
3. Select the tool channel(s) with the turn-and-click wheel (7).

The following robot output settings are possible:

- "left": left tool channel (factory setting)
- "right": right tool channel
- "left & right": both tool channels

4. Confirm the setting with the Enter key (8).

Note If the robot is at working temperature, the display will show – ok – (see Fig. 34).

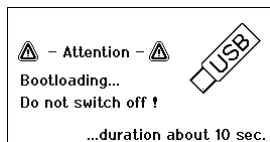


Fig. 36

7.3 Carrying out a firmware update

1. Switch off the WX 2 Soldering Station.
2. Insert the memory stick into the USB port.
3. Switch on the WX 2 Soldering Station.

The firmware update is performed automatically (see Fig. 36).

If you have a more already installed more recent firmware on your station, this will not be changed.

Note The station must not be switched off while the firmware update is running.

7.4 Connecting auxiliary devices

Please observe the overview diagrams (Fig. 1 and Fig. 2).

Auxiliary devices can be connected either to the port on the front panel (11) and/or to the port on the back (15) of the WX 2 Soldering Station.

The WX 2 Soldering Station detects automatically which auxiliary device is connected. The WX 2 Soldering Station shows the symbol or name of the connected auxiliary device (31/25) on the left (front port (11), see Fig. 38) or right (rear port).

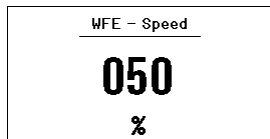


Fig. 37

7.5 Setting the parameters of auxiliary devices

Please observe the overview diagrams (Fig. 1 and Fig. 2).

1. Select the auxiliary device using the auxiliary device key (front/back) (6, 13).

The variable parameters (e.g. speed) are displayed.

2. Set the required value using the turn-and-click wheel (7).
3. Confirm the value with the Enter key (8)
or
press key 6 to exit.

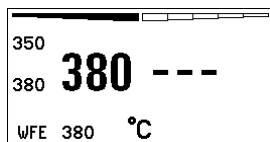


Fig. 38: front WFE
connection

8 Care and maintenance of the WX 2

- ▷ Clean the operator panel, if dirty, using a suitable cleaning cloth.
- ▷ Seal ports which are not in use with covering caps.

9 Error messages and error clearance

Message/symptom	Possible cause	Remedial measures
Display: "- - -"	<ul style="list-style-type: none"> - Tool has not been detected - Tool defective 	<ul style="list-style-type: none"> - Check connection of tool to device - Check connected tool
No display function (display OFF)	<ul style="list-style-type: none"> - No mains supply voltage 	<ul style="list-style-type: none"> - Turn on mains power switch - Check mains supply voltage - Check device fuse
OFF Channel cannot be switched on	<ul style="list-style-type: none"> - Overload cut-out 	<ul style="list-style-type: none"> - Only one soldering iron can be operated.

10 Accessories

T005 29 202 99 WXP 120 Soldering set with holder WDH 10

T005 29 206 99 WXP 200 Soldering set with holder WDH 31

T005 13 178 99 WXMT Micro desoldering tweezers with holder WDH 60

T005 29 204 99 WXMP Micro soldering iron with holder WDH 50

T005 15 121 99 WDH 10 Safety holder for WXP 120

T005 15 158 98 WDH 31 Safety holder for WXP 200

T005 15 156 99 WDH 50 Safety holder for WXMP

T005 15 169 99 WDH 60 Safety holder for WXMT

T005 36 476 99 WFE 20D 230 V solder fume extractor

T005 36 266 99 WFE 2S 230 V portable extractor unit

T005 36 256 99 WFE 4S 230 V mobile extractor unit

T005 36 586 99 WFE 8S 230 V mobile extractor unit

T005 33 648 99 WHP 1000 1000 W preheating plate

T005 33 386 99 WHP 3000 600 W infrared preheating plate

T005 33 646 99 WHP 3000 1200 W infrared preheating plate

T005 87 647 10 WX Connecting cable

T005 87 647 11 WX PC adaptor

T005 87 647 12 WX Adaptor for WFE/WHP

For details of other accessories, please refer to the operating instructions for the individual soldering iron sets.



11 Disposal

Dispose of replaced equipment parts, filters or old devices in accordance with the rules and regulations applicable in your country.

12 Warranty

Claims by the buyer for physical defects are time-barred after a period of one year from delivery to the buyer. This does not apply to claims by the buyer for indemnification in accordance with §§ 478, 479 BGB (German Federal Law Gazette).

We shall only be liable for claims arising from a warranty furnished by us if the quality or durability warranty has been furnished by use in writing and using the term "Warranty".

In addition, for the USA and Canada:

Cooper Tools warrants to the original purchaser and any subsequent owner ("Buyer") that Weller soldering and desoldering products will be free from defects in material and workmanship for a period of one year from date of purchase, provided that no warranty is made with respect to products which have been altered, subjected to abuse or improperly used, installed or repaired. Use of non-Cooper Tools components will void this warranty if a non-Cooper Tools component is defective (or is the source of the defect). Cooper Tools will repair or replace products found to be defective not caused by a part, component or accessory manufactured by another company, during the warranty period. Contact Cooper Tools with dated proof of purchase and return to Apex Tool Group, LLC., 14600 York Rd. Suit A, Sparks, MD 21152. All costs of transportation and reinstallation shall be borne by the Buyer.

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Subject to technical alterations and amendments!

Updated operating instructions are available for download at www.weller.eu.