Manuals+

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JBC

JBC ALE Series Automatic Feed Soldering Control Unit

Specifications

- Product Name: ALE Automatic-Feed Soldering Control Unit
- Voltage Options: 100V, 120V, 230V
- Models with Solder Wire Perforation: ALE-908UVA, ALE-108UVA, ALE-208UVA, and more
- Models Without Solder Wire Perforation: ALE-904UA, ALE-104UA, ALE-204UA, and more
- Power Cord: Included (120V or 230V)

Packing List

Ensure the following items are included:

- Automatic-Feed Soldering Control Unit – 1 unit
- Power Cord – 1 unit (Ref. 0023717 for 120V, 0024080 for 230V)
- Manual – 1 unit (Ref. 0030217)
- Key Set for SF / AL – 1 unit (Ref. 0019341)

Assembly and Components

- Make sure components are correctly assembled in the Control
- Unit. Use the provided Solder Wire Guide Kit for proper setup.

Features and Connections

The product includes features like Solder Reel Stand, Display, USB connectors, Main Switch, and more. Ensure proper connections for effective operation.

Cartridge Assembly

Follow these steps for safe cartridge assembly/change:

1. Ensure the tool is unplugged and cooled down.
2. Loosen the cartridge set screw, remove the used cartridge, and insert the new cartridge up to its mark.
3. Adjust the cartridge tip direction and tighten the cartridge set screw.

This manual corresponds to the following references:

With Solder Wire Perforation:

for wire ø 0.8 mm	for wire ø 1.0 mm	for wire ø 1.2 mm
ALE-908UVA (100 V)	**ALE-910UVA** (100 V)	**ALE-912UVA** (100 V)
ALE-108UVA (120 V)	**ALE-110UVA** (120 V)	**ALE-112UVA** (120 V)
ALE-208UVA (230 V)	**ALE-210UVA** (230 V)	**ALE-212UVA** (230 V)

for wire ø 1.5 mm	for wire ø 1.6 mm	
ALE-915UVA (100 V)	**ALE-916UVA** (100 V)	
ALE-115UVA (120 V)	**ALE-116UVA** (120 V)	
ALE-215UVA (230 V)	**ALE-216UVA** (230 V)	

Without Solder Wire Perforation:

for wire ø 0.38 - 0.4 mm	for wire ø 0.45 - 0.56 mm	for wire ø 0.60 - 0.64 mm
ALE-904UA (100 V)	**ALE-905UA** (100 V)	**ALE-906UA** (100 V)
ALE-104UA (120 V)	**ALE-105UA** (120 V)	**ALE-106UA** (120 V)
ALE-204UA (230 V)	**ALE-205UA** (230 V)	**ALE-206UA** (230 V)

for wire ø 0.70 - 0.78 mm	for wire ø 0.80 - 0.82 mm	for wire ø 0.90 - 1.10 mm
ALE-907UA (100 V)	**ALE-908UA** (100 V)	**ALE-910UA** (100 V)
ALE-107UA (120 V)	**ALE-108UA** (120 V)	**ALE-110UA** (120 V)
ALE-207UA (230 V)	**ALE-208UA** (230 V)	**ALE-210UA** (230 V)

for wire ø 1.14 - 1.27 mm	for wire ø 1.50 - 1.57 mm	for wire ø 1.60 - 1.63 mm
ALE-912UA (100 V)	**ALE-915UA** (100 V)	**ALE-916UA** (100 V)
ALE-112UA (120 V)	**ALE-115UA** (120 V)	**ALE-116UA** (120 V)
ALE-212UA (230 V)	**ALE-215UA** (230 V)	**ALE-216UA** (230 V)

for wire ø 1.80 mm		
ALE-918UA (100 V)		
ALE-118UA (120 V)		
ALE-218UA (230 V)		

Note: For correct operation, the diameter of the solder wire in use must match the

diameter of the ALE reference purchased.

Packing List

The following items are included in **all references**:

Automatic-Feed Soldering
Control Unit .... 1 unit

Power Cord .... 1 unit
Ref. 0023717 (120V)
0024080 (230V)

Manual .... 1 unit
Ref. 0030217

Key Set*
for SF / AL .... 1 unit
Ref. 0019341
includes:

Spanner .... 1 unit

Allen Key ø 1.5 .... 1 unit

Allen Key ø 2.5 .... 1 unit

*already assembled in ALE Control Unit

Packing List

One of the following items is included **according to purchased reference**:

Components already assembled in Control Unit

Components already assembled in Control Unit

Solder Wire Guide Kit .... 1 kit
Station includes 1x guide kit according purchased station reference.

Guide kit references **with** solder wire perforation and solder wire diameters as indicated:

ø0.8 mm / ø0.032 in:
Ref. **GALE08V-B**

ø1.0 mm / ø0.040 in:
Ref. **GALE10V-B**

ø1.2 mm / ø0.047 in:
Ref. **GALE12V-B**

ø1.6 mm / ø0.063 in:
Ref. **GALE16V-B**

Guide kit references **without** solder wire perforation and solder wire diameters as indicated:

ø0.38 - 0.4 mm / ø0.015 - 0.016 in:
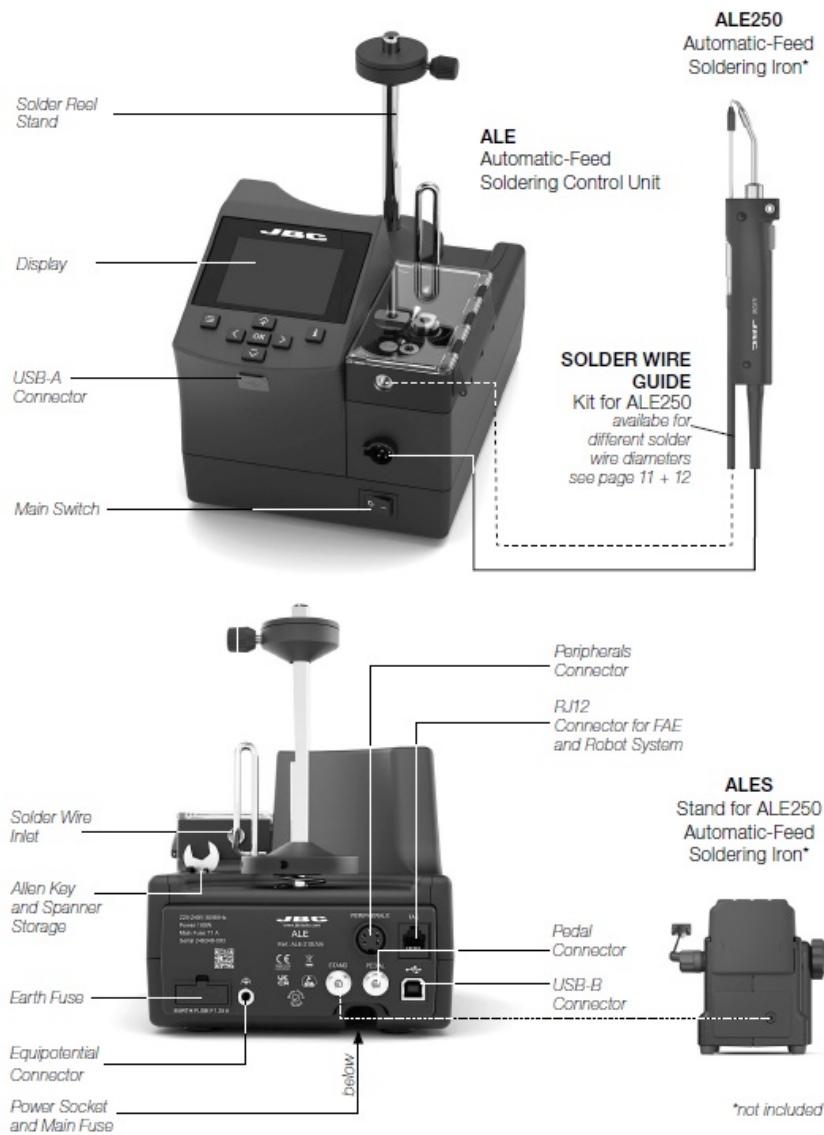Ref. **GALE04D-B**

ø0.46 - 0.56 mm / ø0.018 - 0.022 in:
Ref. **GALE05D-B**

ø0.80 - 0.82 mm / ø0.032 - 0.033 in:
Ref. **GALE08D-B**

ø0.90 - 1.10 mm / ø0.036 - 0.044 in:
Ref. **GALE10D-B**

- **Note:** For correct operation, the diameter of the solder wire in use must match the diameter of the purchased guide kit.
- Guide sets for different diameters are available at: www.jbctools.com/solder-wire-guide-kit-product-2098.html

Features and Connections

ALE250
Automatic-Feed
Soldering Iron*

ALE
Automatic-Feed
Soldering Control Unit

Solder Reel
Stand

Display

USB-A
Connector

Main Switch

**SOLDER WIRE
GUIDE**
Kit for ALE250
availabe for
different solder
wire diameters
see page 11 + 12

Peripherals
Connector

RJ12
Connector for FAE
and Robot System

ALES
Stand for ALE250
Automatic-Feed
Soldering Iron*

Solder Wire
Inlet

Allen Key
and Spanner
Storage

Earth Fuse

Equipotential
Connector

Power Socket
and Main Fuse

Pedal
Connector

USB-B
Connector

below

*not included

Cartridge Assembly

- For a safe cartridge assembly/change, make sure that the tool is unplugged and that any cartridge in place has cooled down before following these guidelines:
- Loosen the cartridge set screw (1), remove the used cartridge if there is any already in place, and insert the new cartridge up to its mark (2).
- Important: It is essential to insert the cartridge completely for a good connection. Use the mark as reference (3).
- Adjust the cartridge tip direction (4) and tighten the cartridge set screw (1).

ALE250
Auto-Feed Soldering Iron

Mark ③

Cartridge Set Screw   Guide Nozzle
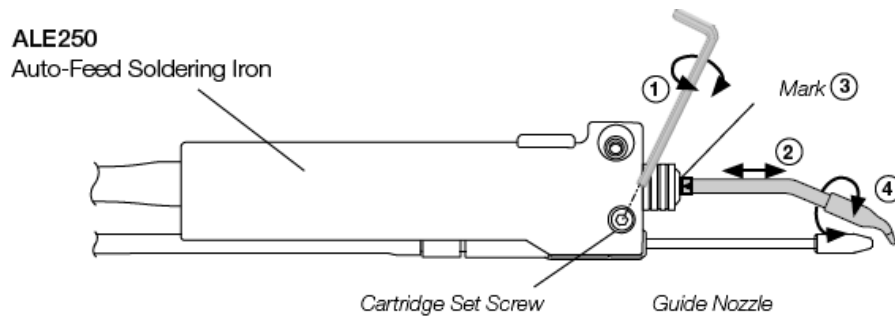
Guide Tube Set Assembly

- Open the guide tube set screw (1) and insert the guide tube set.
- Adjust the guide tube length (2). Leave a gap of 5 to 7 mm (0.19 to 0.27 in) between the tip and the outlet nozzle (3). Once the position is adjusted tighten the guide tube set screw (1).
- For better handling, use the clips (4) to attach the guide tube to the tool cable.

Guide Tube
Set Screw

5-7 mm
0.19-0.27 in

Guide Tube
Set

Clips
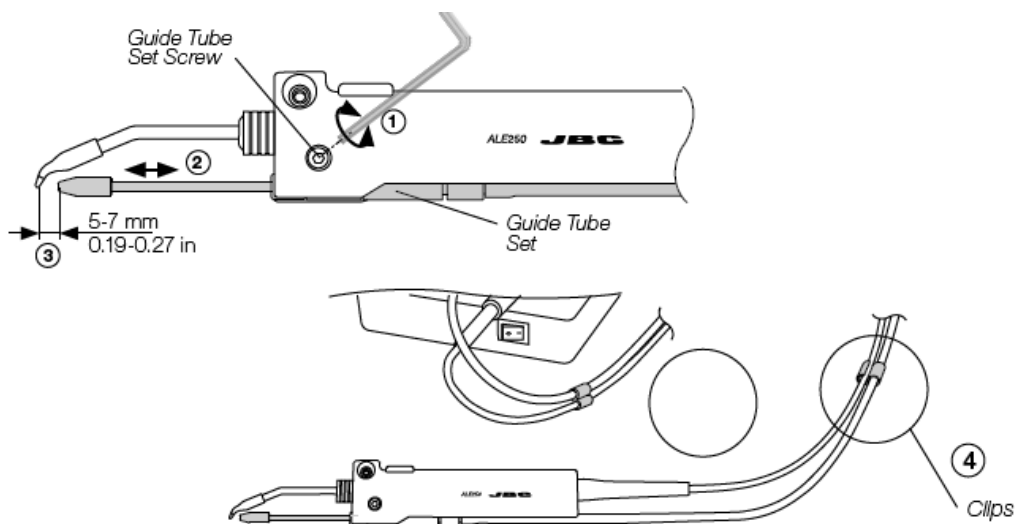
Outlet Nozzle Replacement

Flux can cause clogging at the outlet nozzle of the guide tube set, and it may be necessary to replace the worn or clogged outlet nozzle. Note: There is a nozzle size for each soldering wire diameter. The use of the nozzle is necessary as its inner diameter is adjusted to the solder wire diameter and guides the wire with greater precision. To replace the outlet nozzle, follow these steps: First, make sure that the tool has cooled down and unload any remaining solder wire that might still be inside the guide tube (see pages 11 and 12). Unplug the tool. Loosen the guide tube set screw (1) and detach the guide tube set from the tool for easier handling.

Guide Tube
Set Screw

①

ALE250   JBC

Guide Tube Set
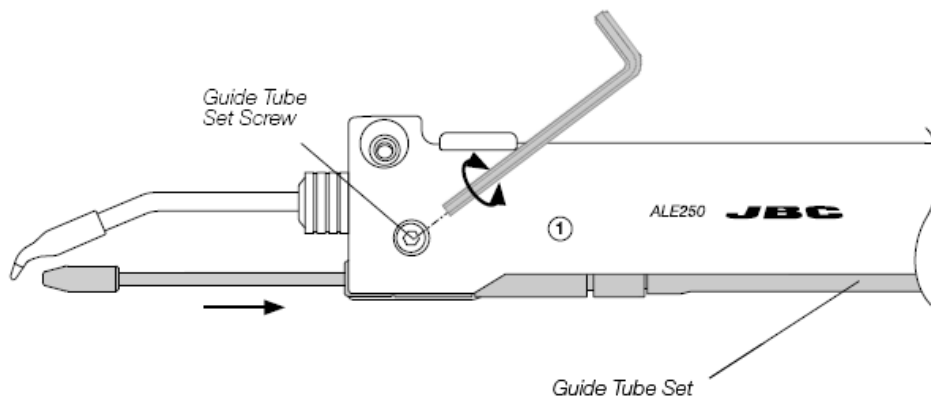
Unscrew the outlet nozzle. If the outlet nozzle is stuck onto the guide nozzle, soak it in alcohol to release it.
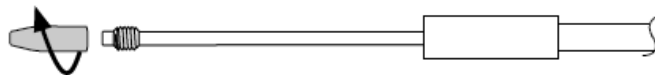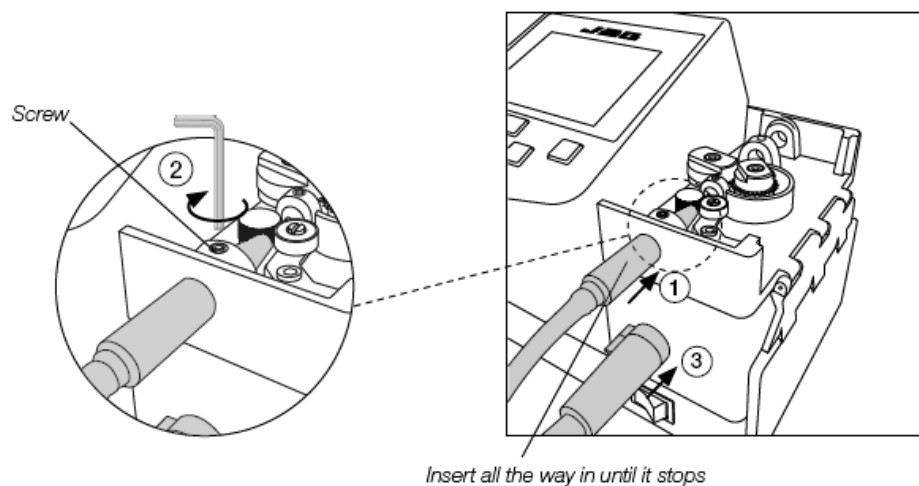

Replace the outlet nozzle and screw it back onto the guide nozzle.
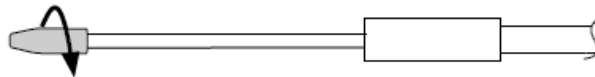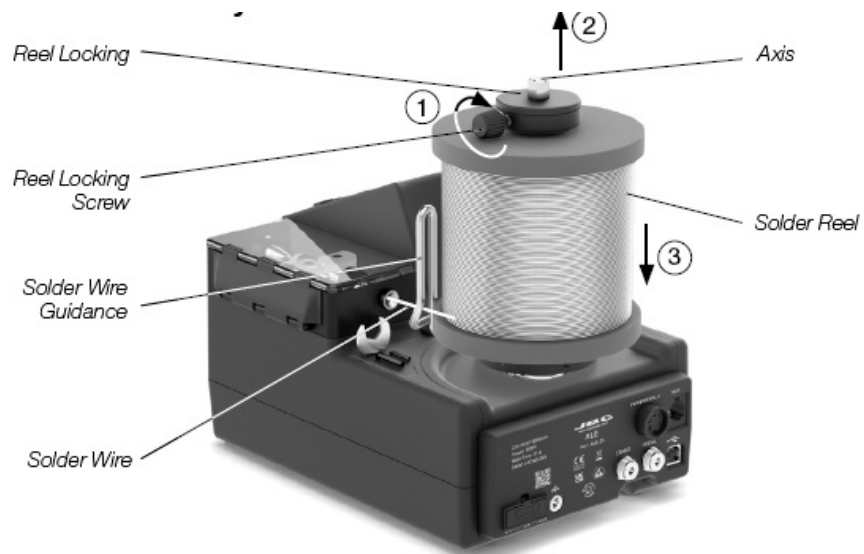

Tool Assembly

- Connect the tool to the control unit following these steps:
- Loosen the set screw, insert and push the guide nozzle until it stops (1) and tighten the set screw (2) again. Then plug in the tool connector (3).

Screw

②

①

③

Insert all the way in until it stops
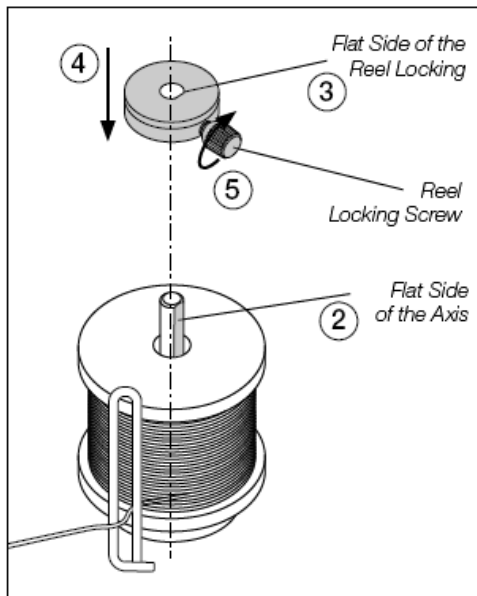
Solder Reel Assembly

Loosen the reel locking screw (1) and remove the reel locking (2) from the axis. Assemble the solder reel onto the axis (3).

Assemble the solder reel in such a way – when viewed from above – that the solder wire unwinds on the dispensing mechanism side (4). Then pass the solder wire through the wire guidance (5).

Reel Locking Assembly

To assemble the reel locking, its conical side (1) must be pointing downwards.
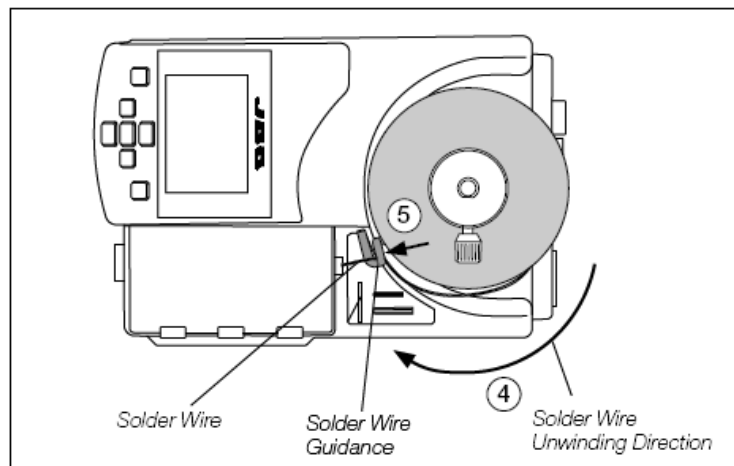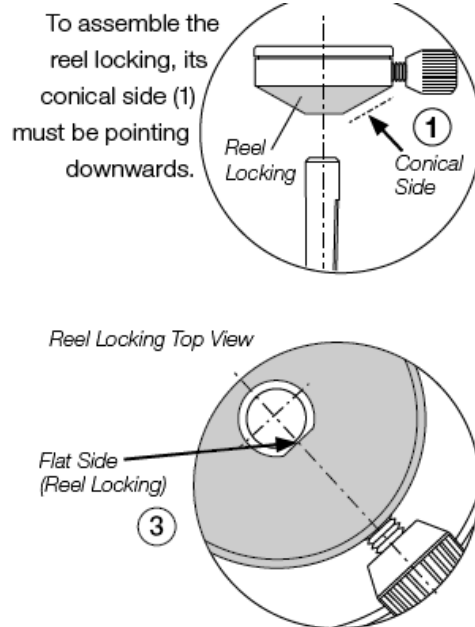
Align the flat side of the axis (2) with the inner flat side (the one with the screw) of the reel locking (3) and reassemble it to the axis (4).

Note: To prevent the solder reel from spinning freely or binding, before tightening the reel locking screw gently press the reel locking down, but only enough to allow the solder reel to rotate freely, before tightening the reel locking screw (5).

Main Menu Screen

Acces to Main Menu by pressing ☰ , select "Feeder settings" (1) and then "Wire diameter" (2) to adjust the value to the current solder wire diameter.
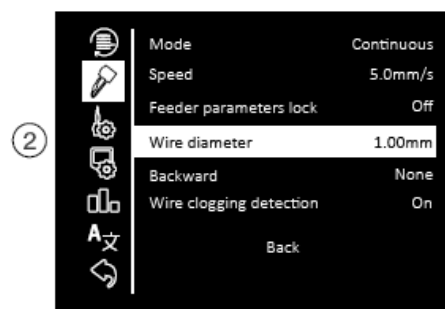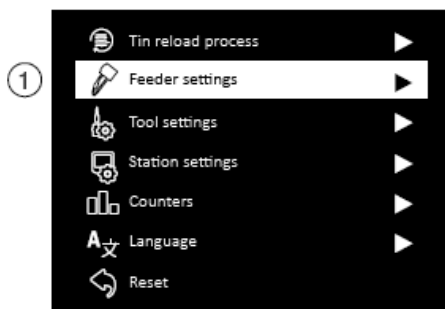
Solder Wire Loading

Pass the solder wire through the wire guidance and introduce the solder wire into the inlet nozzle

1. until it reaches the wheels
2. Select "Tinreload process" and then use ⬆ to feed the solder wire and advance until

it comes out of the outlet nozzle.

If needed, carefully push the wire until it gets locked in between the rotating wheels for the wire to start moving forward. Keep ⬆ pressed and after a while, the wire will advance faster.

Make sure the wire passes through the intermediate nozzle (3) and enters the guide tube (4).
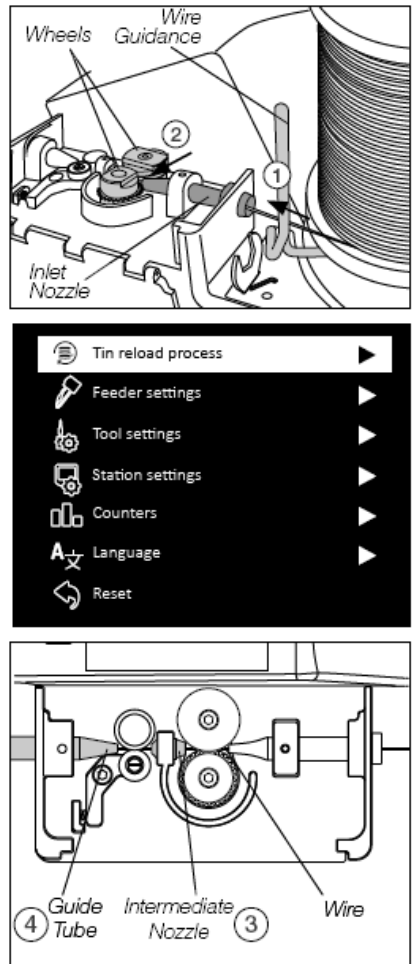
Solder Wire Feeding

Forward the solder wire by pressing the dragging button (1) until the wire comes out of the tip (2).
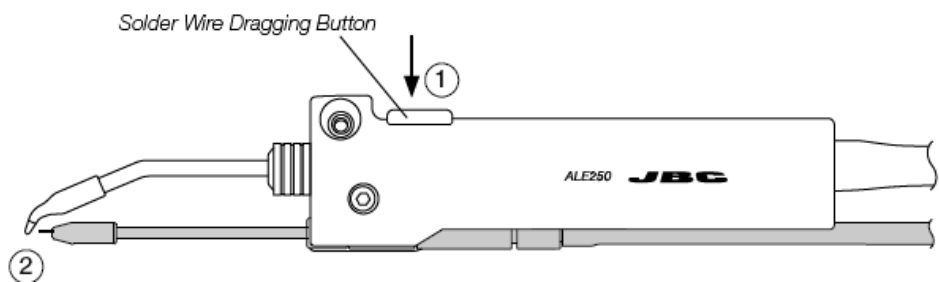
Alternatively, solder wire can also be fed using the pedal P405. The pedal should be

plugged in at the rear of the feeder control unit into the pedal connector.

Solder Wire Unloading

With Solder Wire Perforation, to unload solder wire with perforation that has already passed through the guide tube, cut the wire between the wire guidance and the inlet nozzle (1

To extract the wire out of the tube, hold the tool in your hand and press ⬆ forward. Until the wire stops

Grasp the wire coming out of the outlet nozzle with a pliers and pull until it is completely out.
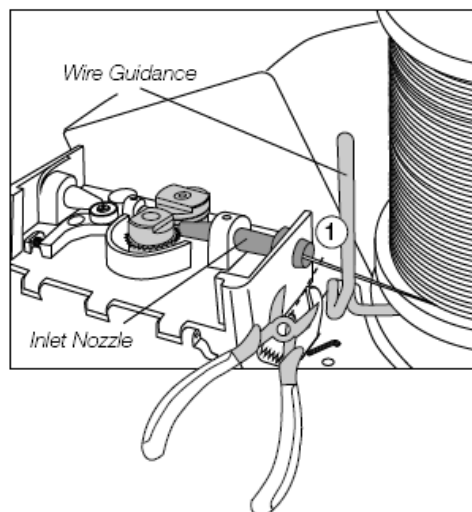
Solder Wire Unloading

Without Solder Wire Perforation

When using a kit without solder wire perforation, press ⬇ until the wire is completely wound to unload the solder wire. It is best to rotate the reel by hand as the wire is being pulled back in order to keep it neatly arranged on the reel. Or, If preferred, proceed as described before for perforated solder wire unloading.

Wire Winding Direction

Solder Reel
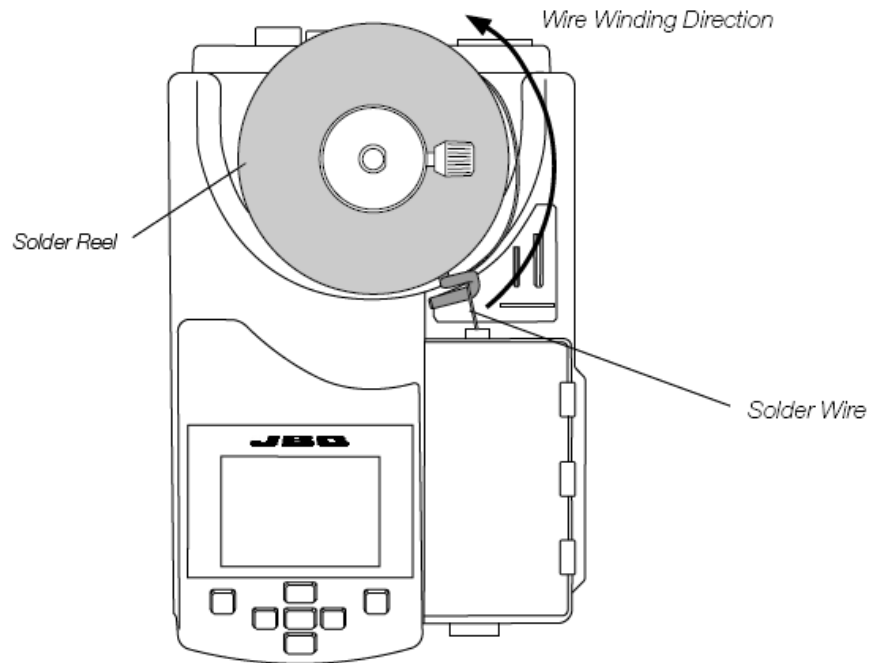
Solder Wire

Guide Kits Disassembly

- For this operation, disconnect the device from the mains. Unload any solder wire running inside the guide tube, disconnect the tool from the control unit and open its cover.
- Before trying to remove any components, be sure to loosen the corresponding set screws. To do this, use the Allen key and spanner provided with the station.
- First, disassemble the guide tube set (1), the guide wheel (4), the blade and blade clamp (5), and then the nozzles (2) + (3). Note: The wheel components® on devices without solder wire perforation (10) are slightly different from those with solder wire perforation.
- Lastly, disassemble the counter wheel (6), introducing the Allen key through the frontal opening (9) to loosen its set screw.

Blade Clamp

Blade

Inlet Nozzle ③

Support Wheel*3

Traction Wheel*3 ⑩

Guide Wheel*1 ④

⑤

Interm. Nozzle*2 ②

*3 Wheel components for devices without solder wire perforation.

*2 Intermediate nozzle disassembly

Counter Wheel ⑥

⑨

Guide Tube Set ①

*1 Guide wheel bears diameter marking.
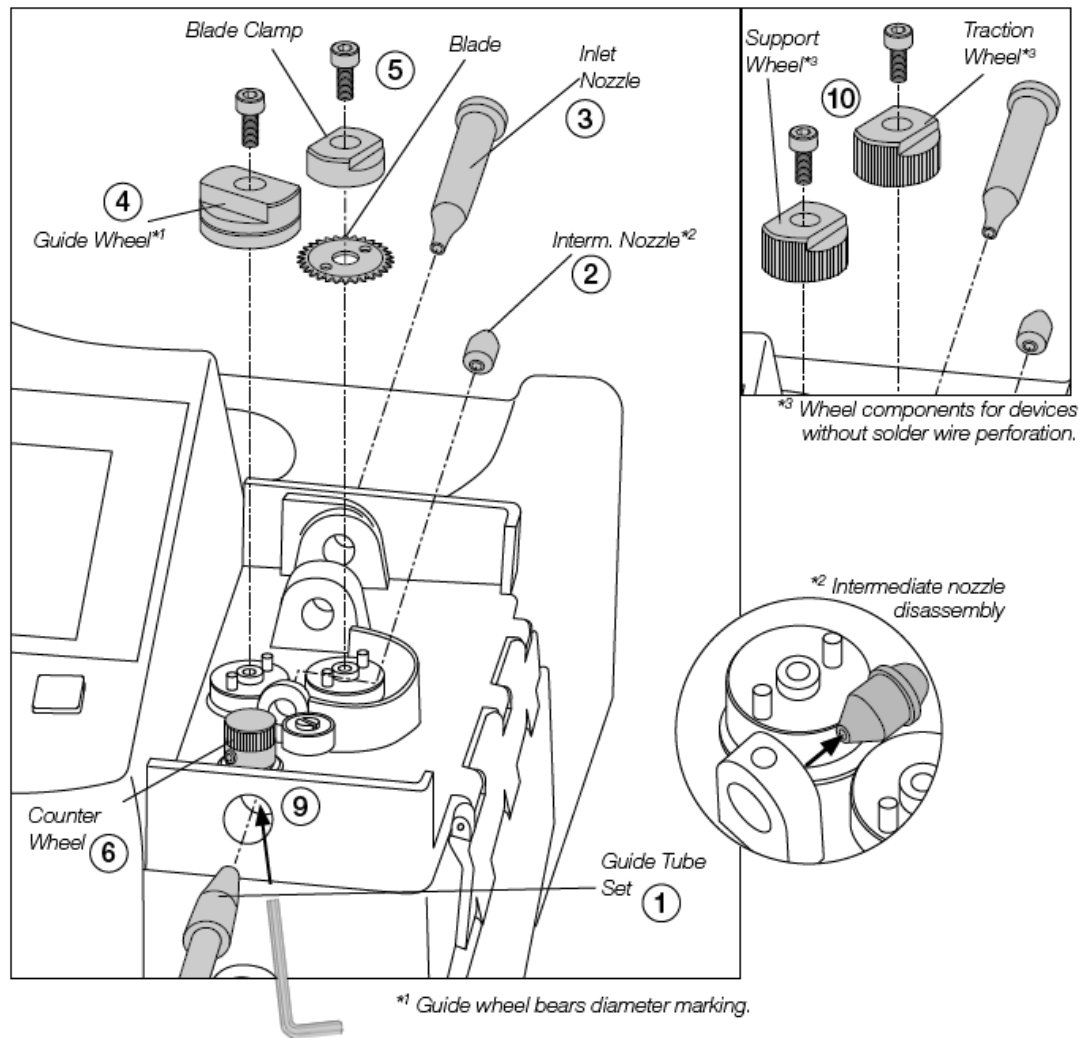
Guide Kits Assembly – with Solder Wire Perforation:

Assemble first the counter wheel (1). Make sure that its thread entry for the set screw is aligned with the flat side of the axis (2). If not, the set screw will protrude, which may cause difficulties for the wire transportation.

Inserting the Allen key through the front opening will make it easier to tighten the screw (3).

Afterwards Insert the intermediate nozzle (4) until its collar rests against the housing and tighten its screw.

Counter Wheel ①

Allen Key ③
inserting here

Axis, ②
Flat Side

---

⑧ Blade Clamp   Blade ⑦

Inlet Nozzle ⑤

⑥ Guide Wheel *¹

Interm. Nozzle *² ④

Assemble the inlet nozzle (5).

Assemble the guide wheel (6) and tighten its screw.

Assemble the blade first (7), then mount the blade clamp (8) onto the same axis and tighten the screw.
Caution: handle the blade carefully to avoid injury.

Finally insert the guide tube set (9).

Counter Wheel ①

③

Guide Tube Set ⑨

*² Intermediate nozzle assembly

*¹ Guide wheel bears diameter marking.

**Guide Kits Assembly – without Solder Wire Perforation:**

- Assemble first the counter wheel (1) in the same way as shown on the previous page (see (1), (2), and (3) on the page before).
- Afterwardas insert the intermediate nozzle (2) until its collar rests against the housing and tighten its screw.
- Assemble the inlet nozzle (3).
- Assemble the support wheel* (4) and the traction wheel (5) on the corresponding axis

and tighten the respective scre.ws

- Finally insert the guide tube set (6) and tighten the screw.

Traction Wheel ⑤
Support Wheel *1 ④
Inlet Nozzle ③
Interm. Nozzle*2 ②
*2 Intermediate nozzle assembly
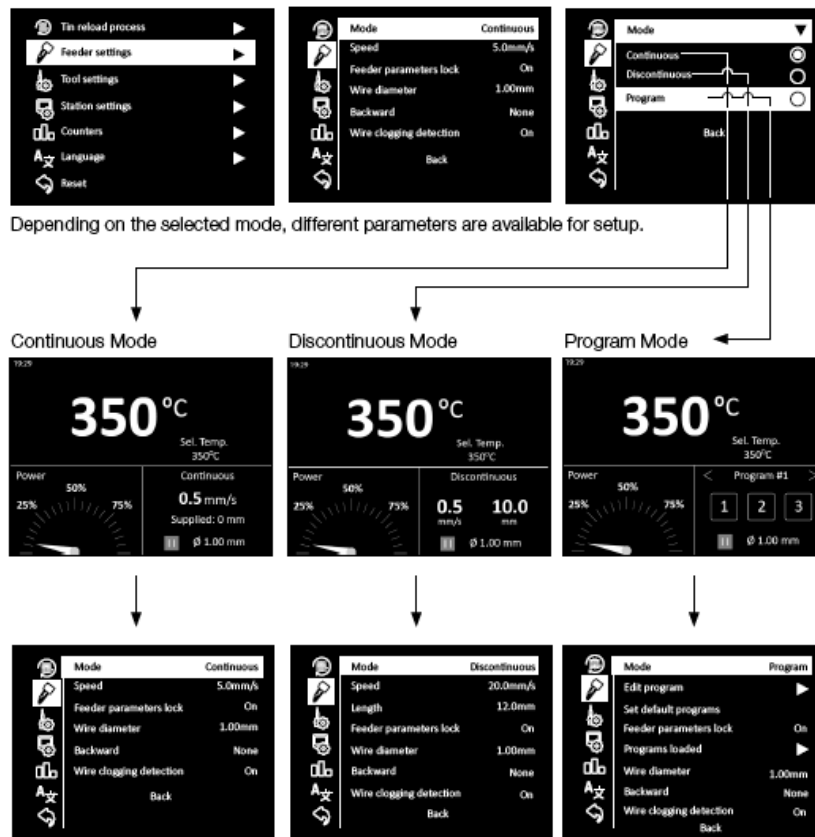Counter Wheel ①
Guide Tube Set ⑥
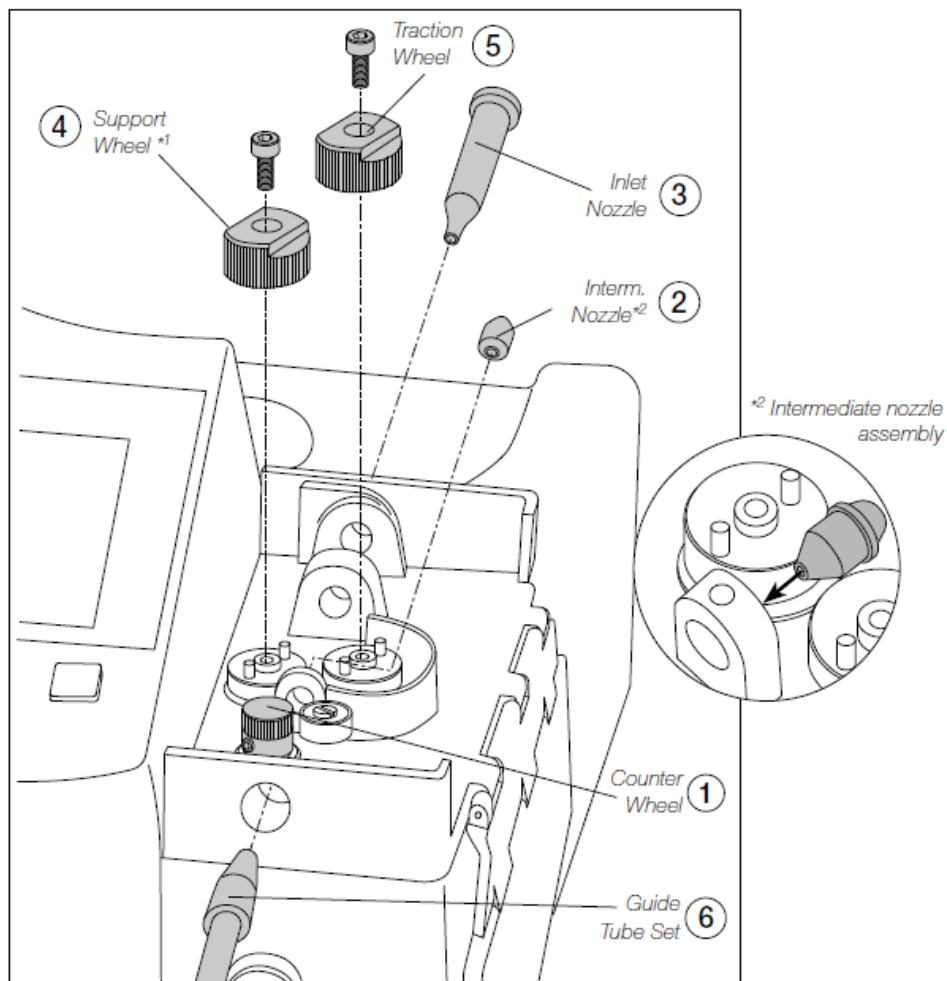
*1 Support wheel bears diameter marking.

Control Process

Feeder Setting Modes

Access to Main Menu by pressing , ☰ select "Feeder Settings" and then "Mode".

Choose between "continuous", "discontinuous" and "program" mode.

Depending on the selected mode, different parameters are available for setup.

Troubleshooting

- Station troubleshooting ng available on the product page at www.jbctools.com

Program Mode

With ALE C.U. there can be up to 5 feeder programs defined. Select "Edit Program" and access the program parameters.

- For each program, between 1 and 3 feeding steps (length and speed) should be defined.
- If fewer than 3 feeding steps are needed, set up wire length and speed to "0.0" and the parameter will change to "None".
- Quick Access to Feeder Setting Modes
- The solder wire dispensing values can be directly set up from the work screen.

- Press ⬆ or ⬇ or to change the tool temperature value.

  When the main screen is displayed, speed and length values can be set up by pressing ok. The following parameters can be changed according to the different dispensing modes:

  - Continuous Mode: Speed
  - Discontinuous Mode: Speed and length
  - Program Mode: 3 feeding parameter pairs (length and speed) for every program.

Note: First, select the program to be modified at the work screen by selecting the program. AND< to switch

Control Process

Menu Screen

Default PIN: 0105

Main Menu

Tin reload process	▶
Feeder settings	▶
Tool settings	▶
Station settings	▶
Counters	▶
Language	▶
Reset	

Tin Reload Process

Tin reload process ▼

Place the tin on the gears and press:

⊞ Forward

⊟ Backward

Press ok to exit

Feeder Settings

Mode	Continuous
Speed	5.0mm/s
Feeder parameters lock	On
Wire diameter	1.00mm
Backward	None
Wire clogging detection	On
Back	

Counters

	Part	Tot
Plug hrs		28
Working hrs	0	6
Sleep hrs	0	0
Hiber hrs	1	20
No tools hrs	1	2
Sleep cyc	20	24
Fed cyc	19	181
Fed mm	118	22786

* partial and total counters are shown

Tool Settings

Temp adjust	0ºC
Temp level set	Off
Sleep delay	0min
Sleep temp	150ºC
Hibernation delay	10min
Peripher.	▶
Back	

Language

English	◉
Deutsch	○
Español	○
Français	○
Italiano	○
日本語	○
한국어	○
Português	○
Русский	○

Station Settings

Program version	8886732
Maximum temp	400ºC
Minimum temp	200ºC
PIN	Off
Sound	On
Temp units	ºC
Length units	mm
Station reset	
Back	

**choose between mm and inches*

Maintenance

Before carrying out maintenance, always switch the device off and disconnect it from the mains. Allow the equipment to cool down.

- Clean the station display with a glass cleaner or a damp cloth.
- Use a damp cloth to clean the casing and the tool. Alcohol can only be used to clean the metal parts.
- Periodically check that the metal parts of the tool and stand are clean so that the station can detect the tool's status.
- Maintain the tip surface clean and tinned prior to storage in order to avoid tip oxidation. Rusty and dirty surfaces reduce heat transfer to the solder joint.
- Periodically check all cables and tubes.
- Replace any defective or damaged pieces. Use only original JBC spare parts.
- Repairs should only be performed by a JBC authorized technical service.

Clean periodically

Clean periodically

Clean periodically

EARTH

- FUSE When this warning appears on the main screen, the earthing fuse must be replaced.
- Replace a blown fuse as follows (applies to both the earthing fuse and the main fuse):
  1. Pull off the fuse holder and remove the fuse.

     If necessary, use a tool to lever it off.
  2. Insert the new fuse into the fuse holder and return it to the station.

Earthing Fuse

Main Fuse (below the control unit)

Fuse Holder

USE ONLY WITH A 250 V FUSE

EARTH FUSE F1.25 A
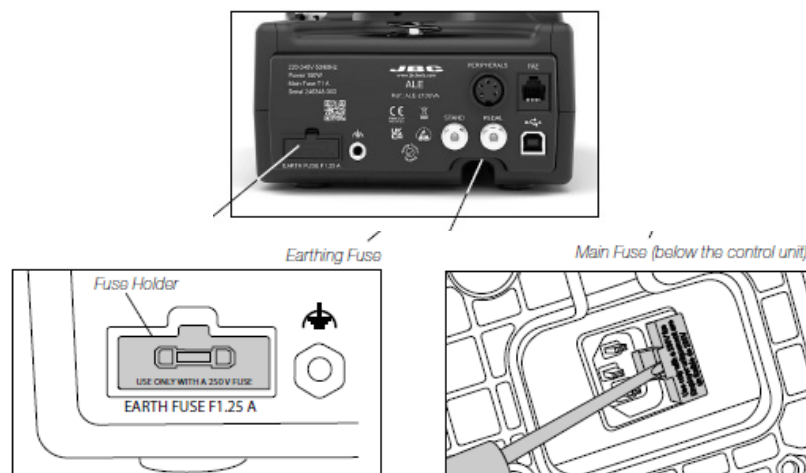
Safety

It is imperative to follow safety guidelines to prevent electric shock, injury, fire, or explosion.

- Do not use the units for any purpose other than soldering or rework. Incorrect use may

cause a fire.

- The power cord must be plugged into approved bases. Be sure that it is properly grounded before use. When unplugging it, hold the plug, not the wire.
- Do not work on electrically live parts.
- The tool should be placed in the stand when not in use in order to activate the sleep mode. The soldering tip or nozzle, the metal part of the tool, and the stand may still be hot even when the station is turned off. Handle with care, including when adjusting the stand position.
- Do not leave the appliance unattended when it is on.
- Do not cover the ventilation grills. Heat can cause inflammable products to ignite.
- Avoid flux coming into contact with skin or eyes to prevent irritation.
- Be careful with the fumes produced when soldering.
- Keep your workplace clean and tidy. Wear appropriate protective eyeglasses and gloves when working to avoid personal harm.
- Utmost care must be taken with liquid tin waste, which can cause burns.
- This appliance can be used by children over the age of eight and also people with reduced physical, sensory or mental capabilities or lack of experience provided that they have been given adequate supervision or instruction concerning the use of the appliance and understand the hazards involved. Children must not play with the appliance.
- Maintenance must not be carried out by children unless supervised.

Specifications

ALE
Automatic-Feed Soldering Control Unit

With *Solder Wire Perforation*

for wire ø 0.8mm:
   Ref. **ALE-908UVA** - 100V 50/60Hz. Input fuse: T2A. Earthing Fuse: F 1.25A. Output: 23.5V
   Ref. **ALE-108UVA** - 120V 50/60Hz. Input fuse: T2A. Earthing Fuse: F 1.25A. Output: 23.5V
   Ref. **ALE-208UVA** - 230V 50/60Hz. Input fuse: T1A. Earthing Fuse: F 1.25A. Output: 23.5V
for wire ø 1.0mm:
   Ref. **ALE-910UVA** - 100V 50/60Hz. Input fuse: T2A. Earthing Fuse: F 1.25A. Output: 23.5V
   Ref. **ALE-110UVA** - 120V 50/60Hz. Input fuse: T2A. Earthing Fuse: F 1.25A. Output: 23.5V
   Ref. **ALE-210UVA** - 230V 50/60Hz. Input fuse: T1A. Earthing Fuse: F 1.25A. Output: 23.5V
for wire ø 1.2mm:
   Ref. **ALE-912UVA** - 100V 50/60Hz. Input fuse: T2A. Earthing Fuse: F 1.25A. Output: 23.5V
   Ref. **ALE-112UVA** - 120V 50/60Hz. Input fuse: T2A. Earthing Fuse: F 1.25A. Output: 23.5V
   Ref. **ALE-212UVA** - 230V 50/60Hz. Input fuse: T1A. Earthing Fuse: F 1.25A. Output: 23.5V
for wire Ø 1.5 mm:
   Ref. **ALE-915UVA** - 100V 50/60Hz. Input fuse: T2A. Earthing Fuse: F 1.25A. Output: 23.5V
   Ref. **ALE-115UVA** - 120V 50/60Hz. Input fuse: T2A. Earthing Fuse: F 1.25A. Output: 23.5V
   Ref. **ALE-215UVA** - 230V 50/60Hz. Input fuse: T1A. Earthing Fuse: F 1.25A. Output: 23.5V
for wire Ø 1.6 mm:
   Ref. **ALE-916UVA** - 100V 50/60Hz. Input fuse: T2A. Earthing Fuse: F 1.25A. Output: 23.5V
   Ref. **ALE-116UVA** - 120V 50/60Hz. Input fuse: T2A. Earthing Fuse: F 1.25A. Output: 23.5V
   Ref. **ALE-216UVA** - 230V 50/60Hz. Input fuse: T1A. Earthing Fuse: F 1.25A. Output: 23.5V

Without *Solder Wire Perforation*

for wire Ø 0.38 - 0.4 mm:
   Ref. **ALE-904UA** - 100V 50/60Hz. Input fuse: T2A. Earthing Fuse: F 1.25A. Output: 23.5V
   Ref. **ALE-104UA** - 120V 50/60Hz. Input fuse: T2A. Earthing Fuse: F 1.25A. Output: 23.5V
   Ref. **ALE-204UA** - 230V 50/60Hz. Input fuse: T1A. Earthing Fuse: F 1.25A. Output: 23.5V
for wire Ø 0.45 - 0.56 mm:
   Ref. **ALE-905UA** - 100V 50/60Hz. Input fuse: T2A. Earthing Fuse: F 1.25A. Output: 23.5V
   Ref. **ALE-105UA** - 120V 50/60Hz. Input fuse: T2A. Earthing Fuse: F 1.25A. Output: 23.5V
   Ref. **ALE-205UA** - 230V 50/60Hz. Input fuse: T1A. Earthing Fuse: F 1.25A. Output: 23.5V
for wire Ø 0.60 - 0.64 mm:
   Ref. **ALE-906UA** - 100V 50/60Hz. Input fuse: T2A. Earthing Fuse: F 1.25A. Output: 23.5V
   Ref. **ALE-106UA** - 120V 50/60Hz. Input fuse: T2A. Earthing Fuse: F 1.25A. Output: 23.5V
   Ref. **ALE-206UA** - 230V 50/60Hz. Input fuse: T1A. Earthing Fuse: F 1.25A. Output: 23.5V
for wire Ø 0.70 - 0.78 mm:
   Ref. **ALE-907UA** - 100V 50/60Hz. Input fuse: T2A. Earthing Fuse: F 1.25A. Output: 23.5V
   Ref. **ALE-107UA** - 120V 50/60Hz. Input fuse: T2A. Earthing Fuse: F 1.25A. Output: 23.5V
   Ref. **ALE-207UA** - 230V 50/60Hz. Input fuse: T1A. Earthing Fuse: F 1.25A. Output: 23.5V

Without Solder Wire Perforation

for wire Ø 0.80 - 0.82 mm:
Ref. **ALE-908UA** - 100V 50/60Hz. Input fuse: T2A. Earthing Fuse: F 1.25A. Output: 23.5V
Ref. **ALE-108UA** - 120V 50/60Hz. Input fuse: T2A. Earthing Fuse: F 1.25A. Output: 23.5V
Ref. **ALE-208UA** - 230V 50/60Hz. Input fuse: T1A. Earthing Fuse: F 1.25A. Output: 23.5V
for wire ø 0.90 - 1.10 mm:
Ref. **ALE-910UA** - 100V 50/60Hz. Input fuse: T2A. Earthing Fuse: F 1.25A. Output: 23.5V
Ref. **ALE-110UA** - 120V 50/60Hz. Input fuse: T2A. Earthing Fuse: F 1.25A. Output: 23.5V
Ref. **ALE-210UA** - 230V 50/60Hz. Input fuse: T1A. Earthing Fuse: F 1.25A. Output: 23.5V
for wire Ø 1.14 - 1.27 mm:
Ref. **ALE-912UA** - 100V 50/60Hz. Input fuse: T2A. Earthing Fuse: F 1.25A. Output: 23.5V
Ref. **ALE-112UA** - 120V 50/60Hz. Input fuse: T2A. Earthing Fuse: F 1.25A. Output: 23.5V
Ref. **ALE-212UA** - 230V 50/60Hz. Input fuse: T1A. Earthing Fuse: F 1.25A. Output: 23.5V
for wire Ø 1.50 - 1.57 mm:
Ref. **ALE-915UA** - 100V 50/60Hz. Input fuse: T2A. Earthing Fuse: F 1.25A. Output: 23.5V
Ref. **ALE-115UA** - 120V 50/60Hz. Input fuse: T2A. Earthing Fuse: F 1.25A. Output: 23.5V
Ref. **ALE-215UA** - 230V 50/60Hz. Input fuse: T1A. Earthing Fuse: F 1.25A. Output: 23.5V
for wire Ø 1.60 - 1.63 mm:
Ref. **ALE-916UA** - 100V 50/60Hz. Input fuse: T2A. Earthing Fuse: F 1.25A. Output: 23.5V
Ref. **ALE-116UA** - 120V 50/60Hz. Input fuse: T2A. Earthing Fuse: F 1.25A. Output: 23.5V
Ref. **ALE-216UA** - 230V 50/60Hz. Input fuse: T1A. Earthing Fuse: F 1.25A. Output: 23.5V
for wire Ø 1.80 mm:
Ref. **ALE-918UA** - 100V 50/60Hz. Input fuse: T2A. Earthing Fuse: F 1.25A. Output: 23.5V
Ref. **ALE-118UA** - 120V 50/60Hz. Input fuse: T2A. Earthing Fuse: F 1.25A. Output: 23.5V
Ref. **ALE-218UA** - 230V 50/60Hz. Input fuse: T1A. Earthing Fuse: F 1.25A. Output: 23.5V

- Nominal Power:	180 W
- Peak Power (Tool):	150 W
- Selectabe Temperature:	90 - 450 °C / 190 - 840 °F
- Idle Temp. Stability (still air):	±1.5°C / ±3°F (Meets and exceeds IPC J-STD-001)
- Temp. Accuracy:	±3% (Using reference cartridge)
- Temp. Adjustment:	±50°C / ±90°F (Through station menu settings)
- Connections:	USB-A Uptade and files import-export
	USB-B Software PC
	RJ12 Fume extractor connection
- Equipontencial bonding:	Optional connection to EPA
- Tip to Ground Voltage/Resistance:	<2 mV RMS / <2 ohms
	Meets and exceeds
	ANSI/ESD S20.20-2014 / IPC J-STD-001F
- Solder Wire Diameter:	According to purchased reference
- Max. Wire Length:	250 mm / 9.84 in (for discontinuous + program mode)
- Min. Wire Length:	0.5 mm / 0.02 in
- Forward Speed Range	0.5 to 50 mm/s / 0.02 to 1.97 in/s
- Speed of Backward Function	0.0 to 5.0 mm/s / 0.5 to 0.20 in/s

- Number of Programs:	5 Programs
- Number of Program Steps:	1 to 3 Steps (for each program)
- Control Unit Dimensions:	235 x 145 x 150 mm
(L x W x H)	9.25 x 5.71 x 5.91 in
- Total Net Weight:	5.81 kg / 12.81 lb
- Package Dimensions / Weight:	368 x 368 x 195 mm / 6.72 Kg
(L x W x H)	14.49 x 14.49 x 7.68 in / 14.82 lb

Compatible Solder Reel:
- Reel Weight:	Up to 2 kg / 4.41 lb
- Max. Reel Diameter:	100 mm / 3.94 in
- Max. Reel Height:	100 mm / 3.94 in

Complies with CE standards.
ESD safe.

Warranty

- JBC's 2-year warranty covers this equipment against all manufacturing defects, including the replacement of defective parts and labor.
- Warranty does not cover product wear or misuse.
- In order for the warranty to be valid, equipment must be returned, postage paid, to the dealer where it was purchased.

- Get 1 extra year of JBC warranty by registering here:
  https://www.jbctools.com/productregistration/ within 30 days of purchase.
- If you register, you will receive email notifications about new software updates for your registered product.

This product should not be thrown in the garbage.
By the European directive 2012/19/EU, electronic equipment at the end of its life must be collected and returned to an authorized recycling facility.

- www.jbctools.com

FAQS

Q: Do I need to match the solder wire diameter with the purchased reference?
A: Yes, for correct operation, ensure the solder wire diameter matches the purchased reference or guide kit.

Q: Are additional guide kits available for different solder wire diameters?
A: Yes, guide sets for different diameters are available at www.jbctools.com/solder-wire-guide-kit-product-2098.html.

Documents / Resources

JBC www.jbc.com INSTRUCTION MANUAL ALE Automatic-Feed Soldering Control Unit	JBC ALE Series Automatic Feed Soldering Control Unit [pdf] Instruction Manual ALE-908UVA, ALE-108UVA, ALE-208UVA, ALE-915UVA, ALE-115UVA, ALE-215UVA, ALE-910UVA, ALE-110UVA, ALE-210UVA, ALE-916UVA, ALE-116UVA, ALE-216UVA, ALE Series Automatic Feed Soldering Control Unit, ALE Series, Automatic Feed Soldering Control Unit, Soldering Control Unit, Control Unit

References

- [User Manual](#)

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