

INSTRUCTION MANUAL



ALU

Auto-Feed Soldering Control Unit

This manual corresponds to the following references:

- ALU-9A (100V)
- ALU-1A (120V)
- ALU-2A (230V)

Packing List

The following items are included:



ALU Control Unit 1 unit





Allen Key Ø 1,5 1 unit Ref. 0741610

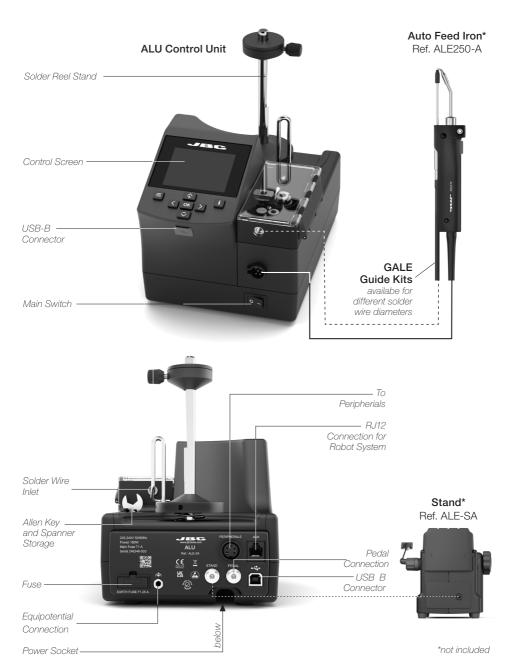








Features and Connections



Solder Reel Assembly

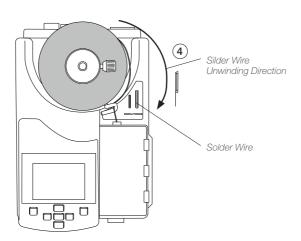


Open the reel locking screw (1) and remove the reel locking (2) from the axis.

Assemble the solder reel onto the axis (3) and reassemble the reel locking screw (1). The flat side of the axis must align with the inner flat side of the reel locking.

Note: Press lightly the reel locking (1) down before tightening the reel locking screw (2) to prevent free reel spinning.

 \triangle Insert the solder reel in such a way - when viewed from above - that the solder wire unwinds on the despensing mechanism side (4).

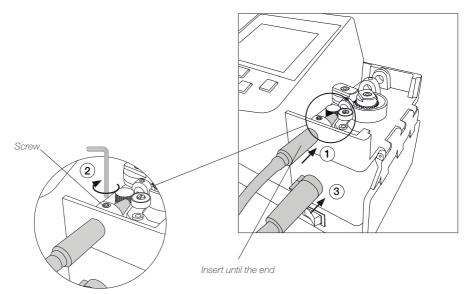




Tool Assembly

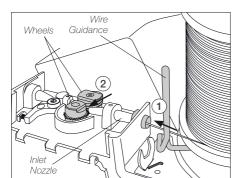
Connect the tool to the control unit following this steps:

Insert and push the guide nozzle until the end (1) and tighten the screw (2). Then connect the tool connector (3).

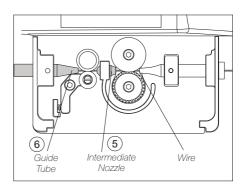


Solder Wire Loading

Pass the solder wire through the wire guidance and introduce the solder wire into the inlet nozzle (1) until it reaches the wheels (2).

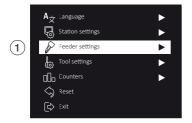


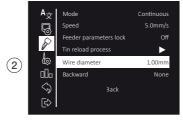
Make sure the wire passes through the Intermediate Nozzle (5) and enters into the Guide Tube (6).



Main Menu Screen

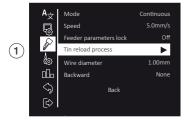
Acces to Main Menu by a select "Feeder Settings" (1) and then "Wire Diameter" (2) to adjust the value to the current solder wire diameter.





Tin Reloaded Process Screen

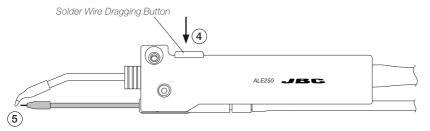
Select "Tin Reloaded Process" (1) and then use \bigcirc to feed the solder wire and advance until it comes out through the outlet nozzle. Keep \bigcirc pressed and after a while the wire will advance faster.





Solder Wire Feeding

Forward the solder wire by pushing the dragging button (4) until the wire comes out of the tip (5).



To feed the solder wire, alternatively the pedal P405 can be used. The pedal should be plugged in at the rear of the feeder control unit into the pedal connector.







Control Process

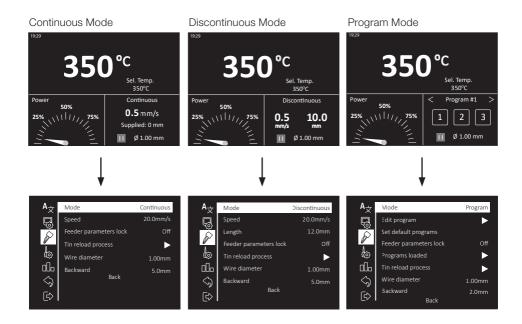
Feeder Setting Modes

Choose between "continuous", "discontinuous" and "program" mode. Acces to Main Menu by select "Feeder Settings" and then "Mode".





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



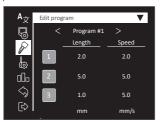
Troubleshooting

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

Control Process

Program Mode

With AL you can define up to 5 feeder programs. Select "Edit Program" and access to the programm parameters.





For each programm between 1 and 3 feeding steps (length and speed) should be defined. If less than 3 feedig 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

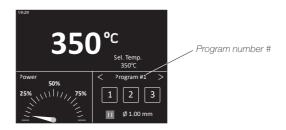
The solder wire dispensing values can directly set up from the work screen.

Press or to change the tool temperature value.

When the main screen is displayed, by pressing out on speed and length value can be set up. Following parameters can be changed according to the different dispensing modes:

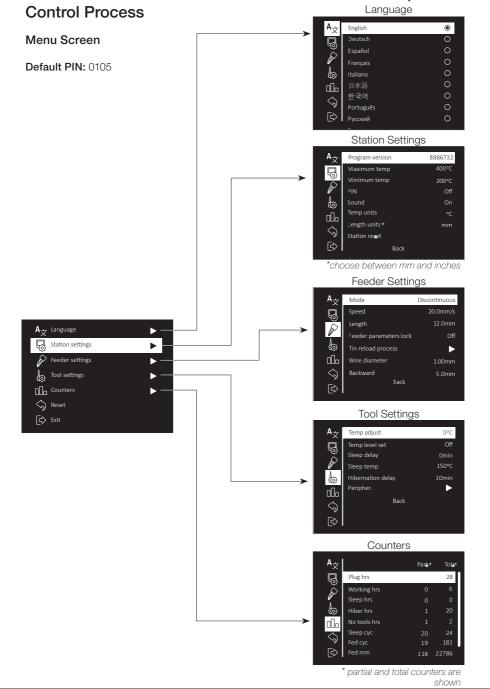
- Contiunous Mode: Speed
- Discontinous Mode: Speed and length
- Program Mode: 3 feeding parameter pairs (length and speed) for every program.

 Note: First select the program to be modified at the work screen by using and to switch between the programs.









Changing Guide Kits

Changing Wheels and Blade

For this operation, disconnect the device from the mains. Disconnect the tool from the control unit and open its cover.

First disassemble the guide tube (6), the nozzles (2)+(3), then the Wheels, Blade and Clamp (4)+(5). Disassemble the Counter Wheel (1). Use the allen key and the spanner, provided with the station.

Assembly with Solder Wire Perforation

Assemble the counter wheel (1).

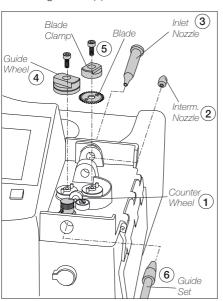
Insert the intermediate nozzle (2) until its collar rests against the housing and tighten the screw.

Assemble the inlet nozzle (3).

Assemble the guide wheel (4) and tighten the screw.

Assemble the blade first, then mount the blade clamp (5) onto the same axis and tighten the screw. **Caution:** handle the blade carefully to avoid injury.

Insert the guide set (6).



Assembly without Solder Wire Perforation

Assemble the counter wheel (1).

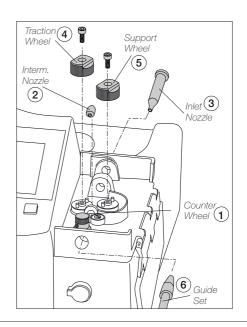
Insert the intermediate nozzle (2) until its collar rests against the housing and tighten the screw.

Assemble the inlet nozzle (3).

Assemble the traction wheel (4) onto the axis and tighten the screw.

Assemble the support wheel (5) and tighten the screw.

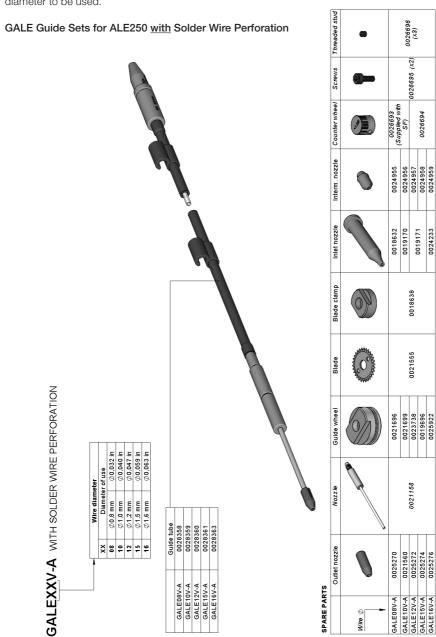
Insert the guide set (6).





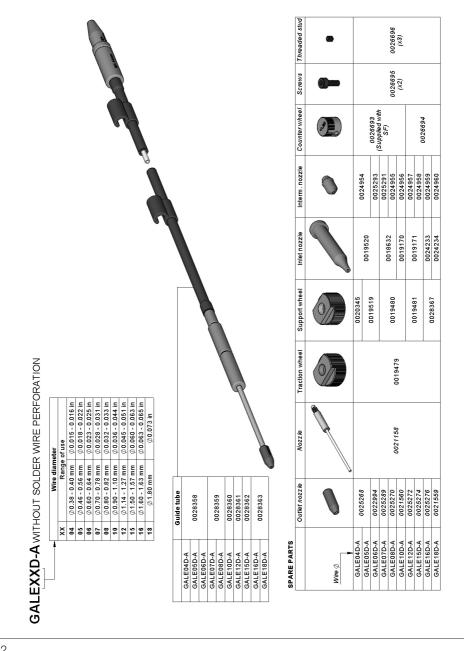


Various guide sets are available. Select the appropriate guide set depending on the solder wire diameter to be used.



Accesories

GALE Guide Sets for ALE250 without Solder Wire Perforation





Maintenance

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

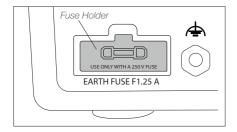
- Clean the station screen with a glass cleaner or a damp cloth.
- Use a damp cloth to clean the casing and the tool. Alcohol can only be used to clean the metal parts.
- Periodically check that the metal parts of the tool and stand are clean so that the station can detect the tool status.



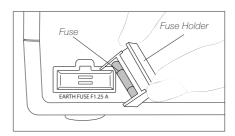




- Maintain tip surface clean and tinned prior to storage in order to avoid tip oxidation. Rusty and dirty surfaces reduce heat transfer to the solder joint.
- Periodically check all cables and tubes.
- Replace a blown fuse as follows:
- **1.** Pull off the fuse holder and remove the fuse. If necessary use a tool to lever it off.



2. Insert the new fuse into the fuse holder and return it to the station.



- Replace any defective or damaged pieces. Only use original JBC spare parts.
- Repairs should only be performed by a JBC authorized technical service.

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 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 inflamable 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 protection glasses 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 persons with reduced physical, sensory or mental capabilities or lack of experience provided that they have been given adequate supervision or instruction concerning 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

ALU

Auto-Feed Soldering Control Unit

- Equipontencial bonding:

ALU-9A 100V 50/60Hz, Input fuse: T2A, Earthing Fuse: F 1.25A, Output: 23.5V ALU-1A 120V 50/60Hz. Input fuse: T2A. Earthing Fuse: F 1.25A. Output: 23.5V ALU-2A 230V 50/60Hz, Input fuse: T1A, Earthing Fuse: F 1,25A, Output: 23,5V

- Output Peak Power: 130 W / 23.5 V

- Selectabe Temperature Range: 90 - 450 °C / 190 - 840 °F

±1.5°C / ±3°F (Meets and exceed IPC J-STD-001) - Idle Temp. Stability (still air):

- 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 Optional connection to EPA

- Tip to Ground Voltage/Resistance: <2 mV RMS / <2 ohms

Meets and exceed

ANSI/ESD S20.20-2014 / IPC J-STD-001F

- Ambient Operating Temp: 10 - 50 °C / 50 - 122 °F - Solder Wire Diameter: 0.4 - 1.6 mm / 0.02 - 0.06 in

- Max. Wire Length: 250 mm / 9.84 in (for discontinous + program mode)

- Min. Wire Length: 0.5 mm / 0.02 in

0.5 to 50 mm/s / 0.02 to 1.97 in/s - Forward Speed Range - Speed of Backward Funktion 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 $(L \times W \times H)$ 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 $(L \times W \times H)$

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 labour.

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 JBC warranty by registering here: https://www.jbctools.com/productregistration/ within 30 days of purchase.



This product should not be thrown in the garbage.

In accordance with the European directive 2012/19/EU, electronic equipment at the end of its life must be collected and returned to an authorized recycling facility.



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