

# **INSTRUCTION MANUAL**



**ALE250** 

Auto-Feed Soldering Iron

This manual corresponds to the following reference:

#### - ALE250-A

# **Packing List**

The following items are included:





Ref. 0028271

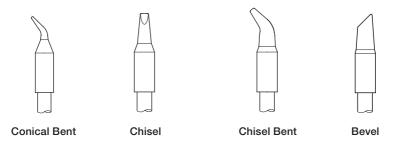


#### **Features and Connections**



## **Compatible Cartridges**

ALE250 works with C250 cartridges. Find the model that best suits your soldering needs at **www.jbctools.com** 

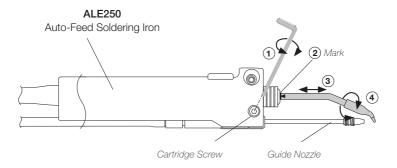


# **Cartridge Assembly**

Loosen the cartridge fixation screw (1). Insert the cartridge up to the mark (2) and then gently push it (3) in until it comes to a stop.

**Important:** It is essential to insert the cartridge completely for a good connection.

Adjust the cartridge position (4) and tighten the cartridge fixation screw (1)



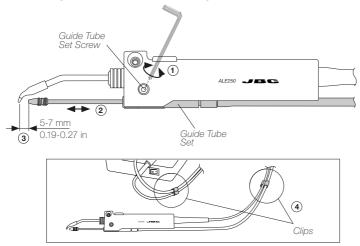


# **Guide Tube Set Assembly**

Open the guide tube set fixation 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).

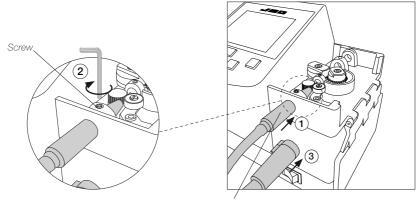
For a better handling use the clips (4) to attach the guide tube to the tool cable.



# **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).



Insert all the way in until it stops

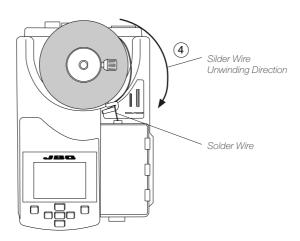
# Solder Reel Assembly



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

Assemble the solder reel onto the axis (3).

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

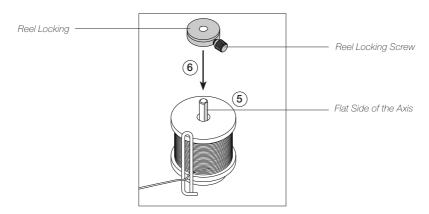




To assemble the reel locking, its conical side must be pointing downwards.

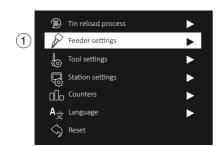
Align the flat side of the axis (5) with the inner flat side (the one with the screw) of the reel locking and reassemble it to the axis (6).

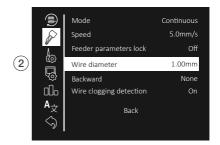
**Note:** To prevent the solder reel from spinning freely or binding, before tightening the reel locking screw gently press the reel locking down, but only enough to have the solder reel secured in place.



#### 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.





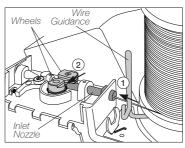
### Solder Wire Loading

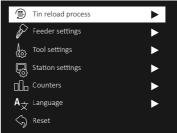
Pass the solder wire through the wire guidance and introduce the solder wire into the inlet nozzle (1) until it reaches the wheels (2).

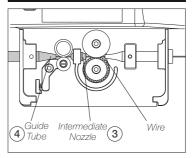
Select "Tin reload process" and then use to feed the solder wire and advance until it comes out of the outlet nozzle.

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).

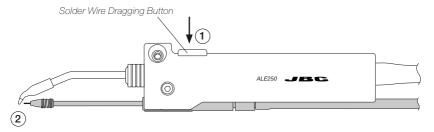






### Solder Wire Feeding

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.





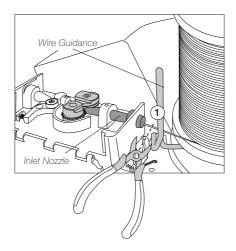
## Solder Wire Unloading

#### 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 on your hand and press  $\bigcirc$  until the wire stops moving forward.

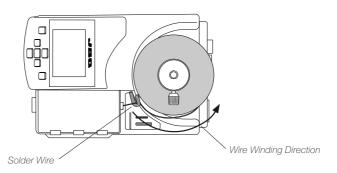
Grasp the wire coming out of the outlet nozzle with a pliers and pull from it until it is completely out.



#### 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.

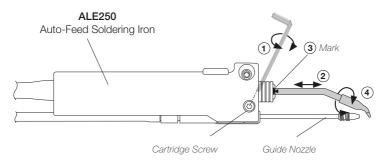


## **Changing Cartridges**

⚠ For a safe cartridge change, unplug the tool or turn the station off before following these guidelines:

Loosen the cartridge screw (1) to release the cartridge (2). Place a new one into the auto-feed iron. **Important:** It is essential to insert the cartridge up to the end for a good connection. Use the mark as reference (3).

Align the tip of the cartridge with the guide nozzle (4) and tighten the cartridge screw (1)



### Replacing Sealing Plugs

The sealing plug prevents undesirable flux vapors or particles from entering the tool, and its usage is highly recommended. If the sealing plug is not used, particle inflow can lead to faulty performance due to poor cartridge contact or even to the tool being rendered unusable.

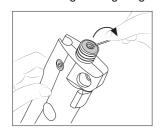
**Note:** Check the condition of the plug periodically and replace it as soon as wear or a crack appears in the sealing area of the cartridge.

⚠ Before replacing the sealing plug, unplug the power supply and make sure the device is not hot.

Tool	Sealing Plug
ALE250, SF250	OB2000 **

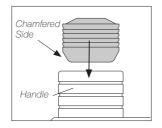
\*\* Each ref. contains 10 units.

#### 1. Removing Sealing Plug



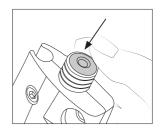
Introduce a small shaft or screwdriver, not deeper than 8 mm, and lift and pull out the sealing plug. Never use a cartridge to do this operation.

#### 2. Mounting Position



**Note:** The chamfered side has to be positioned towards the tool.

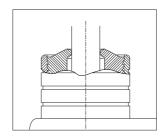
#### 3. Inserting Sealing Plug



Push the sealing plug into the tool until the sealing plug and the tool's edges are aligned.



The sealing plug should be inserted completely to ensure proper connection and functioning, as depicted on the figure on the right.



### **Replacing Guide Sets**

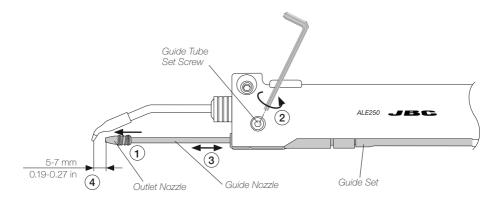
Once the tool is disconnected from the control unit and has cooled down, follow these instructions:

Unload the solder wire and disassemble the outlet nozzle (1) from the guide set.

Loosen the guide tube set screw (2), take out the guide set (3) and insert the desired one.

Put the outlet nozzle (1) back on the new guide nozzle. Leave a gap of 5 to 7 mm (0.19 to 0.27 in) between the cartridge tip and the outlet nozzle (4).

Once the guide nozzle length is adjusted tighten the guide set screw (2).



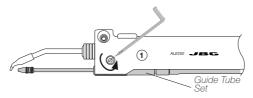
#### **Outlet Nozzle Replacement**

Flux can cause clogging at the outlet nozzle of the guide tube set and it can 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:

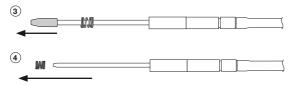
First, make sure that the tool has cooled down and unload any remaining solder wire that might still be inside the guide tube (see page 9). Unplug the tool. Loosen the guide tube set screw (1) and detach the guide tube set from the tool for easier handling.



Unscrew the spring inwards (2), following the downward direction of the spring.



Once the outlet nozzle is released from the spring, pull the outlet nozzle out (3) and then remove the spring (4).



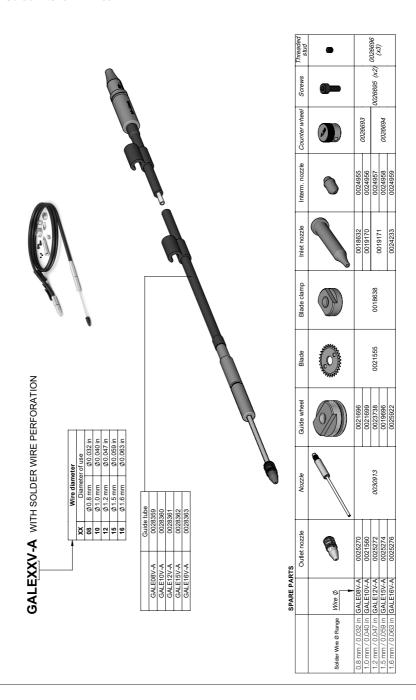
Place the new outlet nozzle onto the guide tube set (5).



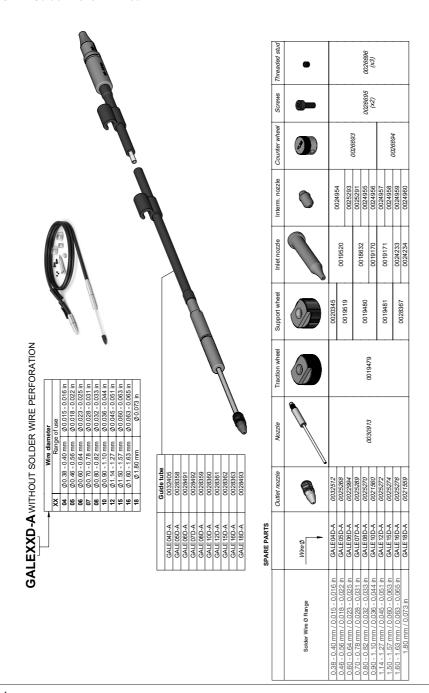
Once the outlet nozzle is set in place, screw the spring onto it to fix the outlet nozzle onto the guide tube (6).







#### GALE Guide Kits for ALE250





#### **Accessories**

#### **Fume Extractor**

Ref. F4468 - 2 m (78.74 ft) lenght.

The fume extractor for AL250 is an easy & safe solution to suck the fume generated at the solder joint.



#### Maintenance

- Before carrying out maintenance, always unplug the stand and the tool.
- Check periodically that the metal parts of the tool and the stand are clean to ensure detection of the tool when it is in the stand. Use a damp cloth or alcohol.
- Periodically check all cables and tubes connections.
- Replace any defective or damaged pieces. Use original JBC spare parts only. 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 tool for any purpose other than soldering or rework.
- 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.
- The tool should be placed in the stand when not in use in order to activate the sleep mode.
  The soldering tip, 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.
- Avoid the contact of flux 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.



Notes	

Notes	



Notes	

### **Specifications**

ALE250

Auto-Feed Soldering Iron

Ref.: ALE250-A

- Tool Dimensions (aprox.): 35 x 21 x 182 mm / 1.42 x 0.83 x 7.16 in

- Total Net Weight:

148 gr / 0.33 lb - Package Dimensions / Weight: 300 x 125 x 65 mm / 257 g  $(L \times W \times H)$ 11.81 x 4.92 x 2.56 in / 0.57 lb

Complies with CE standards.

FSD 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.



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.

