

JBC

www.jbctools.com

INSTRUCTION MANUAL



SF

Automatic Solder Feeder Station

This manual corresponds to the following references:

SF-110VB (110-120V) with Guide Set ø1mm

SF-210VB (230V) with Guide Set ø1mm

Packing List

The following items are included:



SF Control Unit 1 unit

Automatic Solder Feed

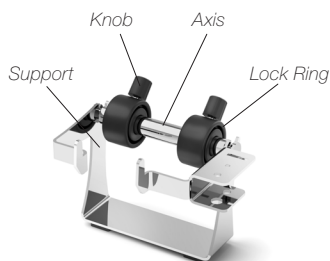
Handle 1 unit

Ref. SF280-A

Guide Set 1 unit

Ref. GSF10V-B

already assembled



Reel Support 1 unit

Ref. 0019301 (x1) - Support

0018033 (x1) - Axis

0003412 (x2) - Lock Ring

0014427 (x2) - Knob



Spanner 1 unit

Ref. 0017631



Allen key Ø 1,5 1 unit

Ref. 0741610



Allen key Ø 2,5 1 unit

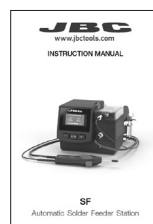
Ref. 0012574



Power cable 1 unit

Ref. 0023715 (100V/120V)

0023714 (230V)



Manual 1 unit

Ref. 0028008

Features and Connections

SF Control Unit

Automatic Solder Feed Handle Ref. SF280-A

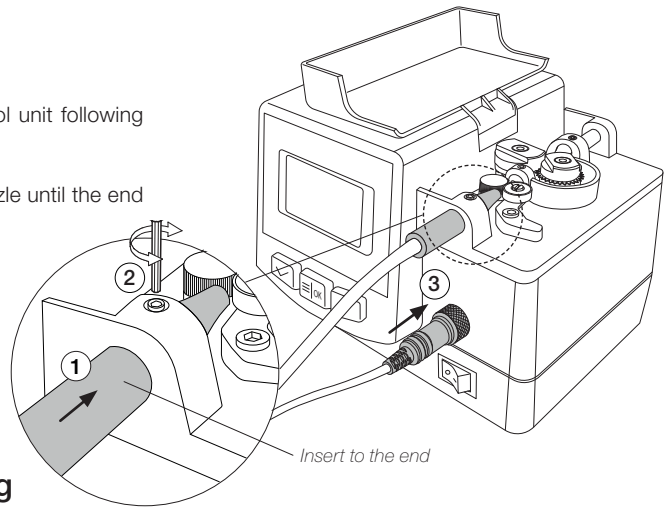


Tool Assembly

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).

Connect the jack (3).

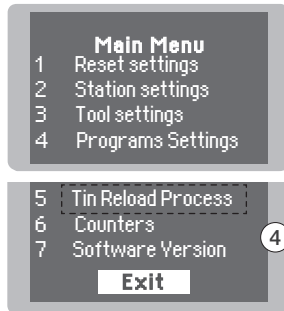


Solder Wire Loading

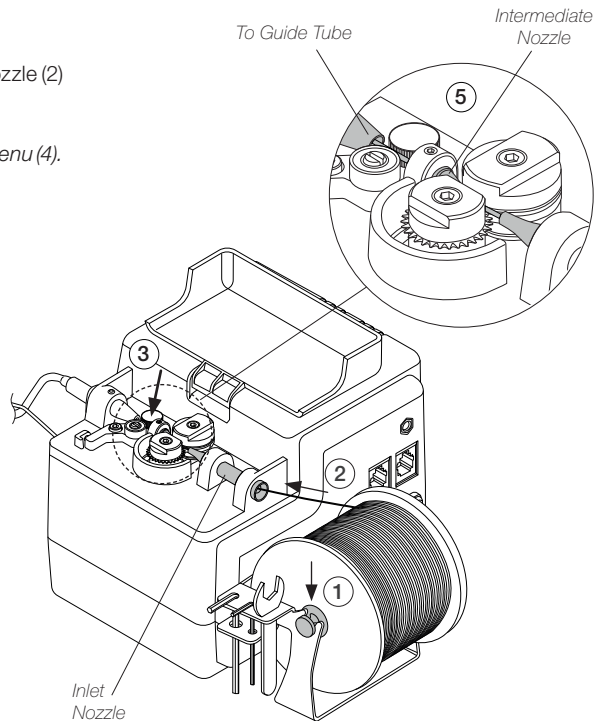
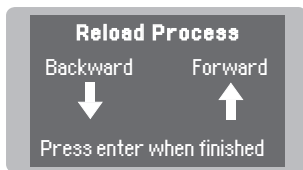
Put the solder reel into its support (1).

Introduce the solder wire into the inlet nozzle (2) until it reaches the wheels (3).

Use the *Tin Reload Process* in the *Main Menu* (4).



The Reload Process screen opens. Press  to start the process.



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

Changing Guide Sets

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).

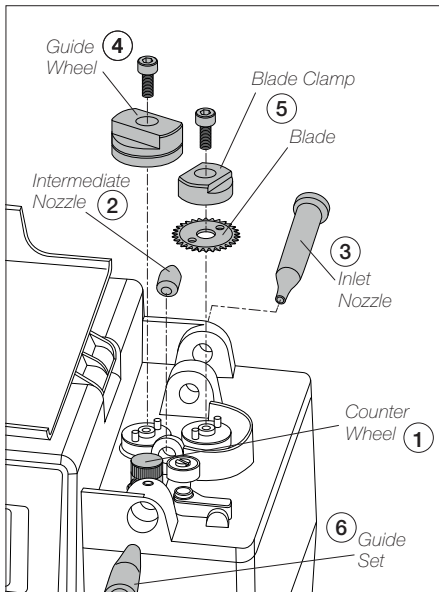
Insert the intermediate nozzle (2) until its collar rests against the housing and tighten the screw.

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).

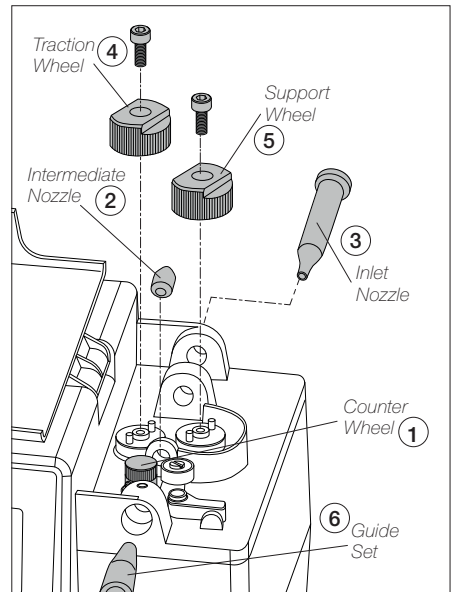
Insert the intermediate nozzle (2) until its collar rests against the housing and tighten the screw.

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).



Replacing the Guide Tube

Once the tool is disconnected from the control unit follow the instructions below:

Disassemble the outlet nozzle (1) from the guide tube.

Open the guide clamp (2), take off the guide tube (3) and insert the new one.

Note: The guide tube length can be easily adjusted (4) when the guide clamp knob (2) is open.

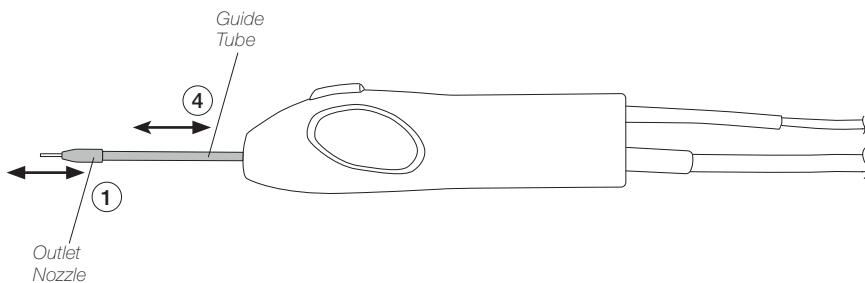
Once the guide tube length is adjusted close the guide clamp knob (2).

Assemble the outlet nozzle (1) onto the guide tube tip.

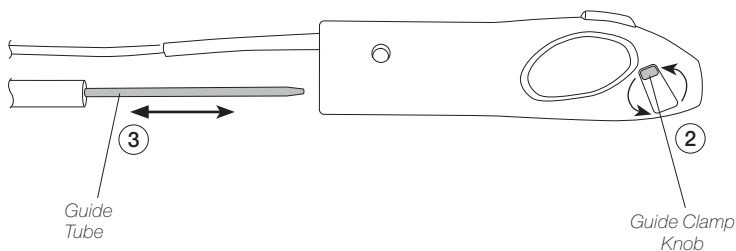
Enter en "Tool Settings" at the SF control unit main menu and select the proper wire diameter.



SF with Guide Tube assembled



SF without Guide Tube assembled



Control Process

Work Screen

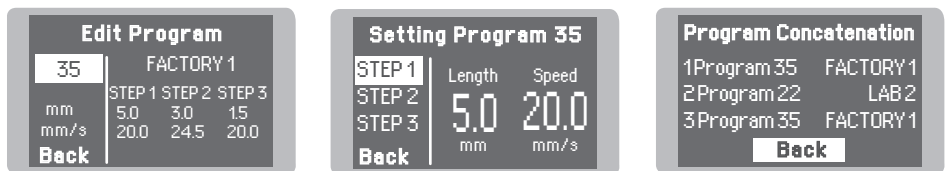
Choose between continuous, discontinuous and program mode:



Program Mode

With the SF you can define up to 35 dynamic programs. In each one you can configure up to 3 steps with different length wire and dispensing speed.

Execute them sequentially and cyclically with the 'Edit Concatenation List' option.



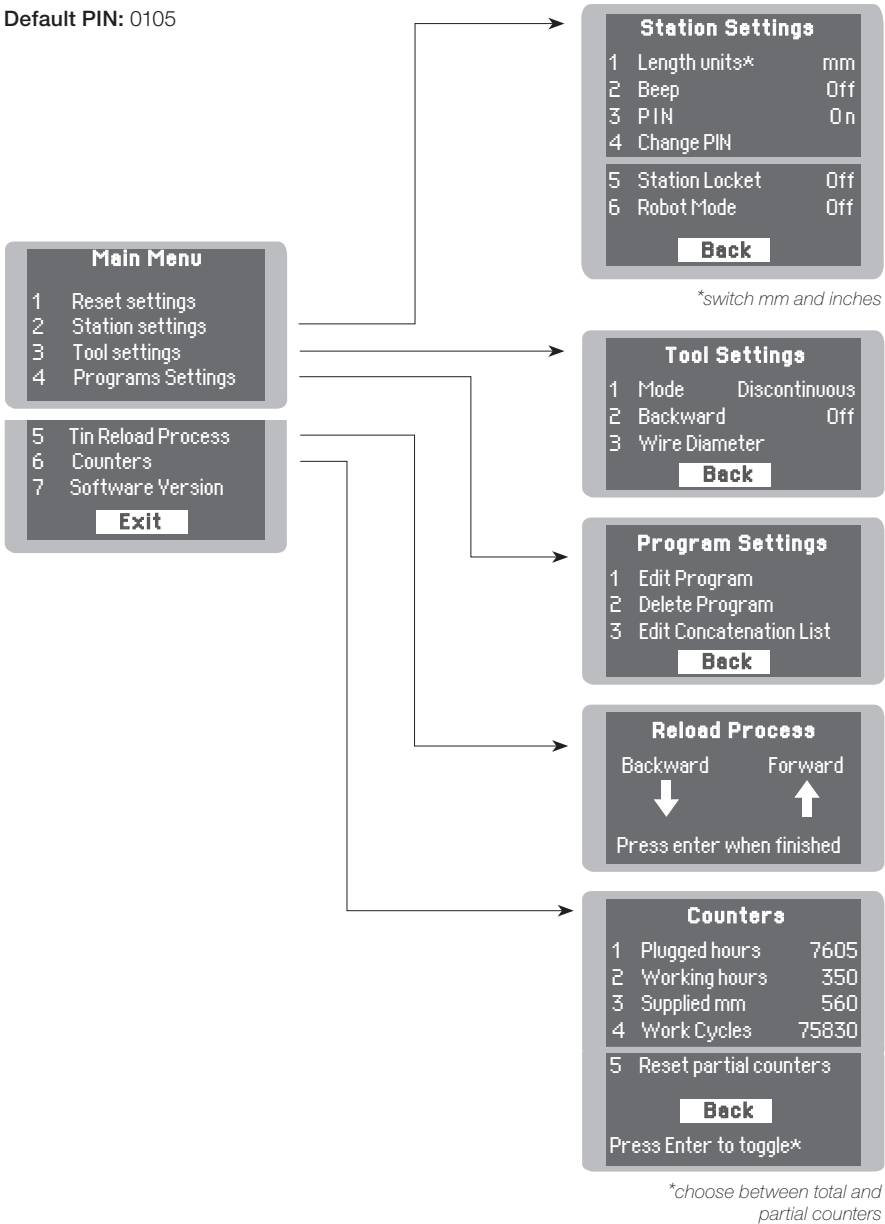
Troubleshooting

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

Control Process

Menu Screen

Default PIN: 0105



Accessories*

Guide Sets

Various guide sets are available to choose from depending on the diameter of the welding wire used.



Solder Wire Ø	Ref. with Solder Wire Perforation	Solder Wire Ø	Ref. without Solder Wire Perforation
-	-	0.4 mm / 0.016 in	GSF04D-B
-	-	0.5 mm / 0.020 in	GSF05D-B
-	-	0.6 mm / 0.025 in	GSF06D-B
0.8 mm / 0.032 in	GSF08V-B	0.7 - 0.8 mm / 0.028 - 0.032 in	GSF08D-B
1.0 mm / 0.040 in	GSF10V-B	0.9 - 1.0 mm / 0.035 - 0.040 in	GSF10D-B
1.2 mm / 0.047 in	GSF12V-B	1.1 - 1.2 mm / 0.043 - 0.047 in	GSF12D-B
1.5 mm / 0.059 in	GSF15V-B	1.3 - 1.5 mm / 0.051 - 0.059 in	GSF15D-B
1.6 mm / 0.063 in	GSF16V-B	1.6 mm / 0.063 in	GSF16D-B

Tool Stand

Stand for SF280 Solder Feed Handle

Ref. SF-SE

It prevents SF280 Solder Feed Handle from rolling away while working.



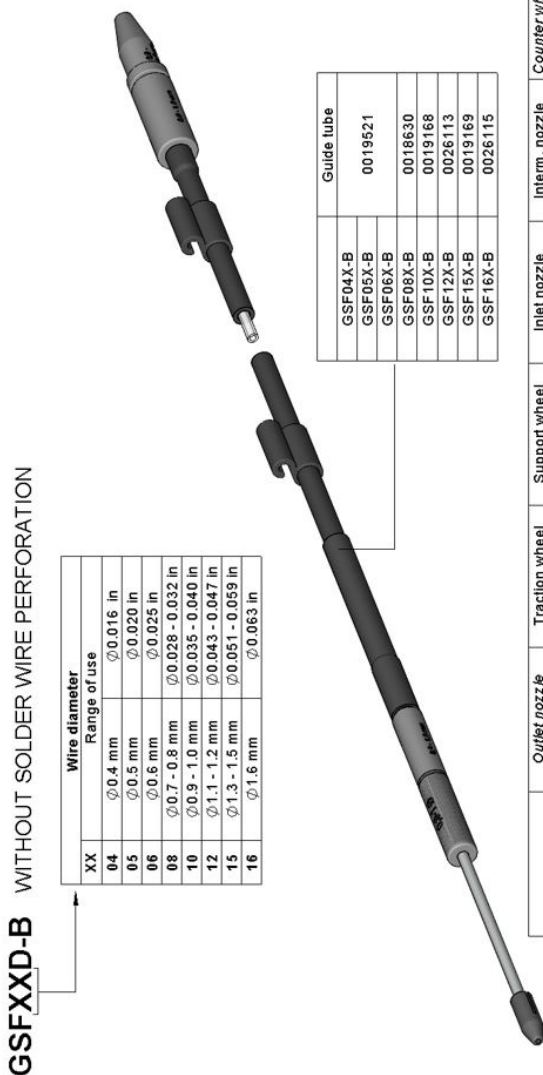
GSF Guide Set for SF280 with Solder Wire Perforation

Wire diameter

Guide tube

	Outlet nozzle	Guide wheel	Blade	Blade clamp	Inlet nozzle	Intern. nozzle	Counter wheel	Screws	Threaded stud
WireØ									
	GSF08V-B	0025270	0021696		0018632	0024955	0026693 (Supplied with SF)	0026695 (x2)	0026696 (x3)
	GSF10V-B	0021560	0021699		0019170	0024956			
	GSF12V-B	0023738	0025272	0018638	0019170	0024957			
	GSF15V-B	0025274	0025285		0019171	0024958	0026694		
	GSF16V-B	0025276	0025922		0024233	0024959			

GSF Guide Set for SF280 without Solder Wire Perforation



Wire ϕ	Outlet nozzle	Traction wheel	Support wheel	Inlet nozzle	Intern. nozzle	Counter wheel	Screws	Threaded stud
								
GSF04D-B	0025268	0019479	0020345	0019520	0024954	0026693 (Supplied with SF)	0026695 (x2)	0026696 (x3)
GSF05D-B	0019519		0018632	0025293				
GSF06D-B	0019480		0019170	0024955				
GSF08D-B	0025270		0019171	0024956				
GSF10D-B	0021560		0024957	0024958				
GSF12D-B	0025272		0024958	0024959				
GSF15D-B	0025274		0024234	0024959				
GSF16D-B	0025276		0024234	0024959				

Maintenance

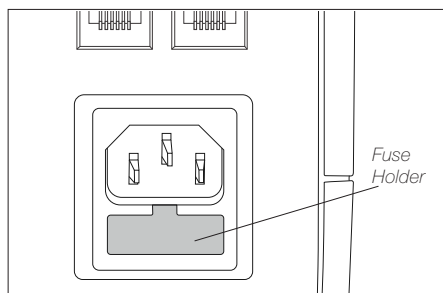
Before carrying out maintenance, always allow the equipment to cool down.

- 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 all cables and tubes.

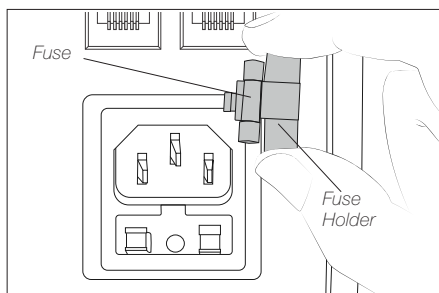


- Replace a blown fuse as follows:

1. Pull off the fuse holder out and remove the worn fuse. If necessary use a tool to lever it off.



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



- Replace any defective or damaged parts. 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 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 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 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

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Specifications

SF

Automatic Solder Feeder Station

Ref.: **SF-110VB** 100-120V 50/60Hz. Input fuse: T0.2A.

Ref.: **SF-210VB** 230V 50/60Hz. Input fuse: T0.125A.

- | | |
|---|--|
| - Compatible Solder Reel: | Weight up to 1 kg / 2.2 lb
Diameter Max. 80 mm / 3.15 in
Height Max. 75mm / 2.95 in
Stand Axis ø 10 mm / 0.4 in |
| - Solder Wire Diameter | ø0.9 - ø 1.0 mm / ø0.035 - ø0.040 in |
| - Max. Wire Length | 250 mm / 9.84 in |
| - Max. Forward Speed | 120 mm/s / 4.72 in/s |
| - Max. Reverse Speed | 120 mm/s / 4.72 in/s |
| - Ambient Operating Temp: | 10 - 50 °C / 50 - 122 °F |
| - USB Connector Station-PC | |
| - Robot Connector | |
| - Dimensions / Net Weight:
(L x W x H) | 140 x 150 x 120 mm / 2.32 kg
5.5 x 5.9 x 4.72 in / 5.11 lb |
| - Total package Dimensions / Weight:
(L X W X H) | 368 x 368 x 195 mm / 3.23 kg
14.5 x 14.5 x 7.68 in / 7.12 lb |

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.

