

# JBC

[www.jbctools.com](http://www.jbctools.com)

## INSTRUCTION MANUAL



# SF

Automatic Solder Feeder

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:



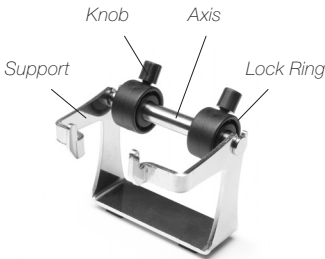
**SF Control Unit** ..... 1 unit



**Solder Feed Handle** ....1 unit  
Ref. SF280-A



**Guide Set** .....1 unit  
Ref. GSF10V-B



**Reel Support** ..... 1 unit  
Ref. 0019301 (x1) - Support  
0018033 (x1) - Axis  
0003412 (x2) - Lock Ring  
0014427 (x2) - Knob



**Spanner** ..... 1 unit  
Ref. 0017631



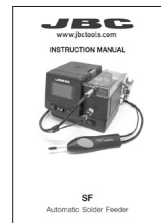
**Allen key Ø 1,5** .....1 unit  
Ref. 0741610



**Allen key Ø 2,5** .....1 unit  
Ref. 0012574



**Power cable** ..... 1 unit  
Ref. 0023715 (100V/120V)  
0023714 (230V)



**Manual** .....1 unit  
Ref. 0021633

## Features and Connections

Control Unit

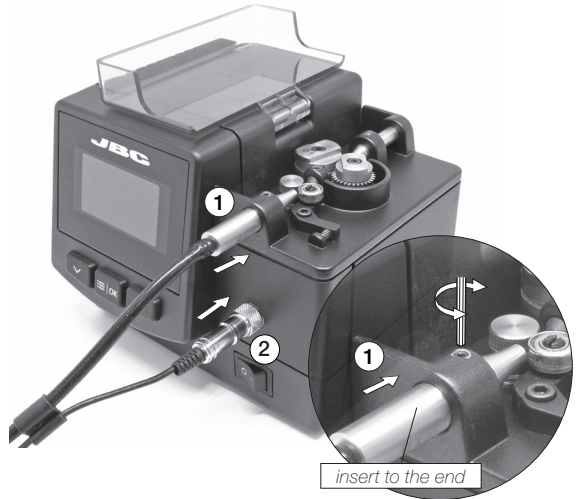
Solder  
Feed Handle  
Ref. SF280-A



# Tool Assembly

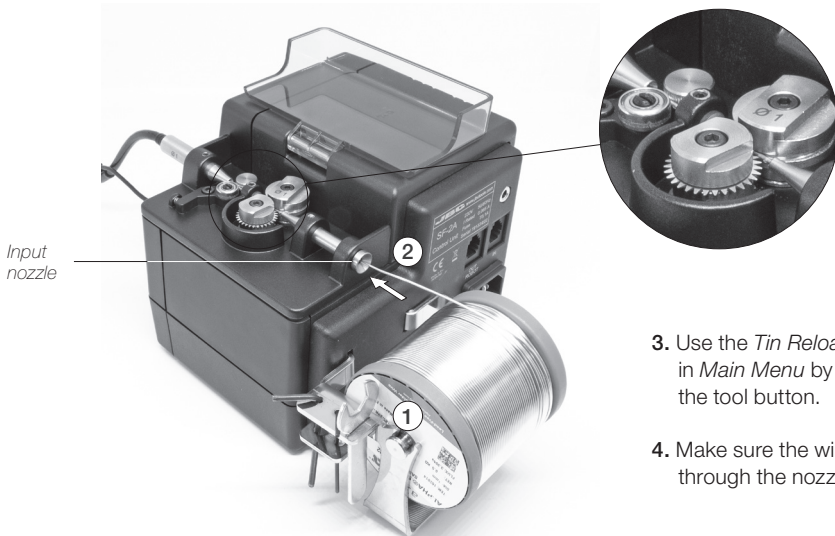
Connect the tool to the control unit.

- 1. Push the guide tube to the end and tighten the screw.
- 2. Connect the jack.



# Load the Solder Wire

- 1. Put the reel into its support.
- 2. Feed the wire into the input nozzle (2) until it reaches the wheels.

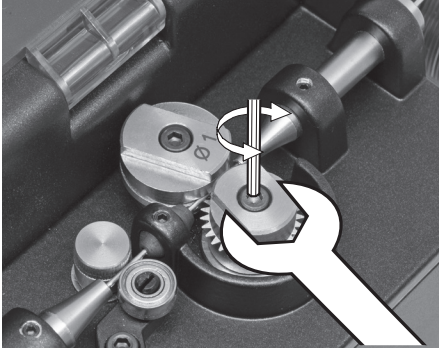


- 3. Use the *Tin Reload Process* in *Main Menu* by pressing the tool button.
- 4. Make sure the wire passes through the nozzle.

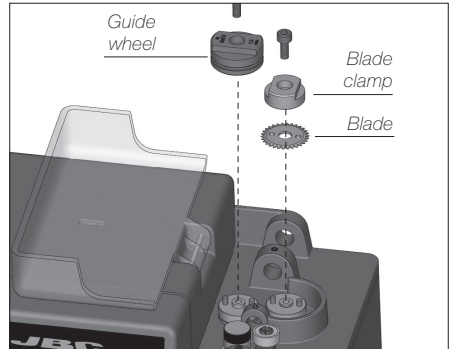
## Changing the Wheels and the Blade

For this operation, disconnect the unit.

1. Use the allen key and the spanner to loosen the screws.



2. Replace the guide wheel and the blade for the new ones.

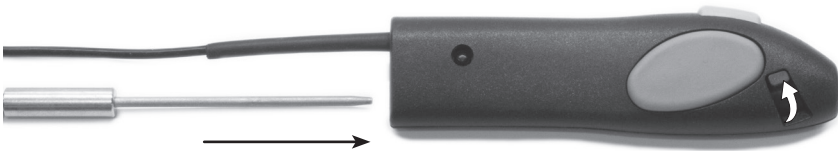


**⚠** \* Handle with care to avoid any cuts with the blade because it is sharp.

## Replacing the Guide Tube

For this operation, disconnect the tool from the control unit.

1. Open the guide clamp, take off the guide tube and insert the new one.



2. You can easily adjust the length of the tube by opening the tube clamp.



# Control Process

## Work Screen

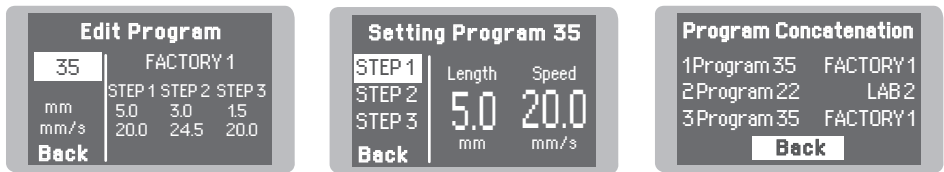
Choose between continuous, discontinuous and program mode:



## 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.



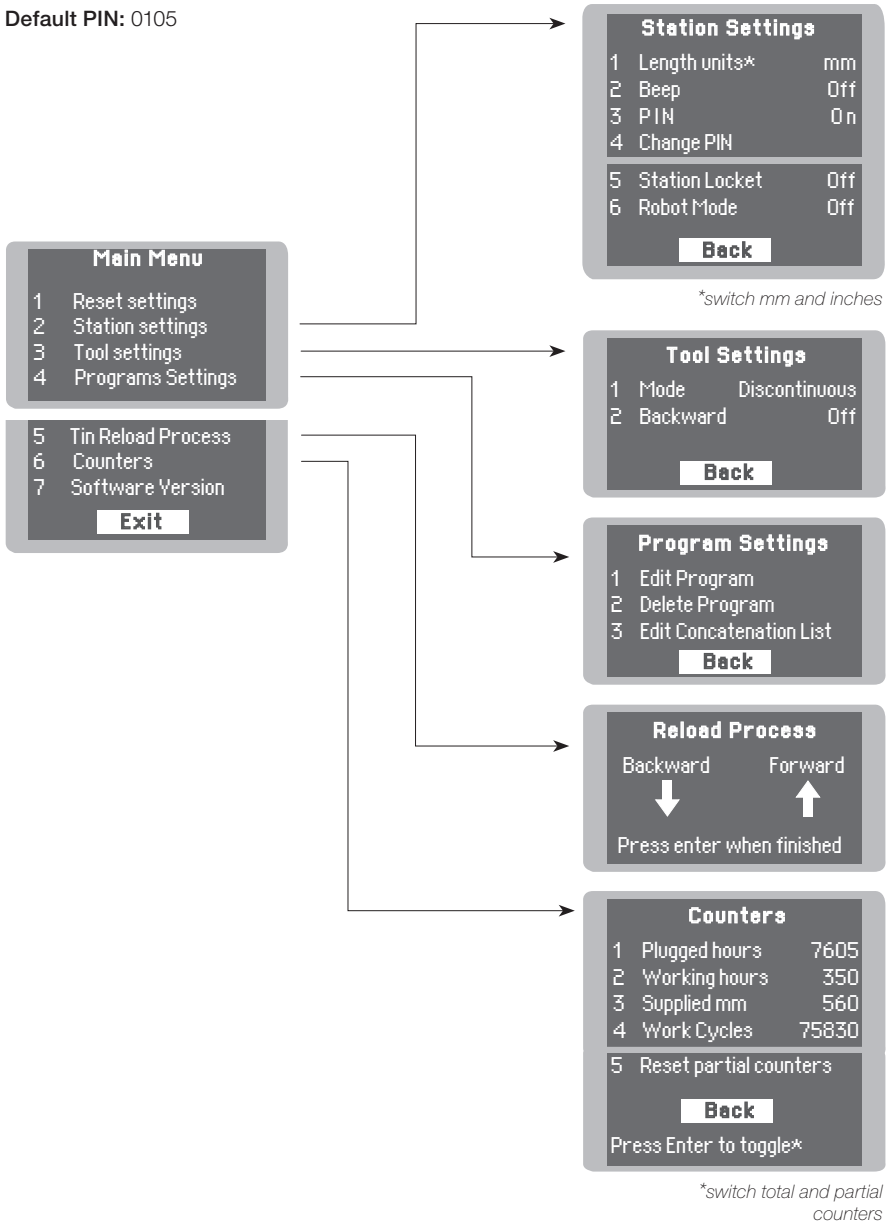
## Troubleshooting

Station troubleshooting available on the product page at [www.jbctools.com](http://www.jbctools.com)

## Control Process

### Menu Screen

Default PIN: 0105



# Accessories

Different **guide sets** are available depending on the diameter of the used solder wire.



Solder Wire Ø (mm)	With Solder Wire Perforation	Solder Wire Ø (mm)	Without Solder Wire Perforation
-	-	0.5-0.6	GSF05D-B
0.8	GSF08V-B	0.7-0.8	GSF08D-B
1.0	GSF10V-B	0.9-1.0	GSF10D-B
1.5	GSF15V-B	1.2-1.5	GSF15D-B

## Stand for SF280

Ref. SF-SE



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



## Maintenance

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

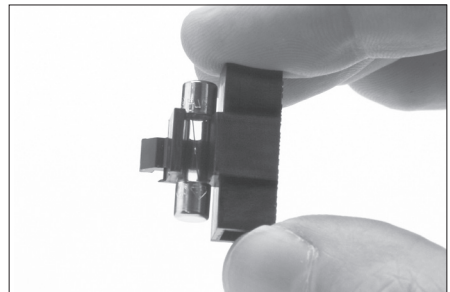
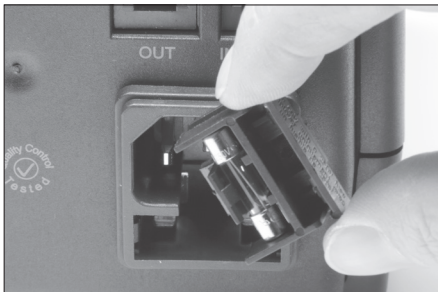
- Clean the station screen with a glass cleaner or a damp cloth.
- Use a damp cloth to clean the casing and the tool. Alcohol can only be used to clean the metal parts.
- Periodically check all cables and tubes.



- Replace a blown fuse as follows:

1. Pull off the fuse holder 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 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, 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.

## 有害物质含量表

产品中有害物质的名称及含量

部件名称	有害物质					
	铅(Pb)	汞(Hg)	镉(Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
烙铁头	○	○	○	○	○	○
手柄	○	○	○	○	○	○
电源线	○	○	○	○	○	○
主机	○	○	○	○	○	○
电源插座	○	○	○	○	○	○
保险丝	○	○	○	○	○	○
主开关	○	○	○	○	○	○
电位连接	X	○	○	○	○	○
变压器	○	○	○	○	○	○
线路板	X	○	○	○	○	○

○ 表示该有害物质在该部件所有均质材料中的含量均在GB/T 26572 规定的限量要求以下。  
 X 表示该有害物质至少在该部件的某一均质材料中的含量超出GB/T 26572 规定的限量要求。

# Specifications

**SF-110VB** 100-120V 50/60Hz. Input fuse: 0.2A.

**SF-210VB** 230V 50/60Hz. Input fuse: 0.125A.

- Spool capacity up to 1 kg / 2.2 lb
- Max Spool Diam.: 80 mm / 3.15 in
- Max. Spool Height: 75mm / 2.95 in
- Solder diameter Ø 0,5 - 1,5 mm / Ø 0.02 - 0.059 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/Weight: 140 x 150 x 120 mm / 2.32 kg  
(L x W x H) 5.5 x 5.9 x 4.72 in / 5.11 lb
  
- Total package Dimensions / Weight: 368 x 368 x 195 mm / 3.23 kg  
(L X W X H) 14.5 x 14.5 x 7.68 in / 7.12 lb

Complies with CE standards.  
ESD protected.

## JBC

### 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.

