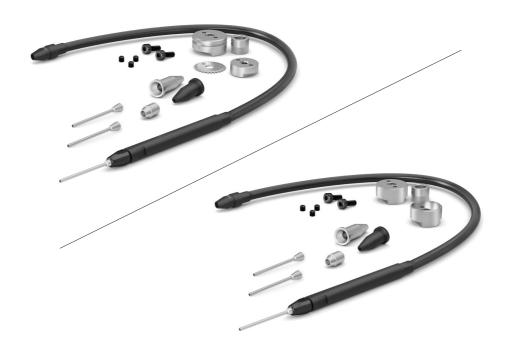


INSTRUCTION MANUAL



GSFR

Guide Kit for Robot with/without Solder Wire Perforation

This manual corresponds to the following references:

I his manual corresponds to the following references:							
GSFR[XX]	/[LL]- B <u>With</u> Solder Wire	e Perforation					
L _							
	Ref.	Wire Diameter Ø	Tube Length				
	GSFR08V03-B GSFR08V05-B GSFR08V06-B GSFR08V07-B GSFR08V10-B	0.8 mm / 0.032 in " " "	0.3 m / 11.81 in 0.5 m / 19.69 in 0.6 m / 23.62 in 0.7m / 27.56 in 1.0 m / 39.37 in				
	GSFR10V03-B GSFR10V05-B GSFR10V06-B GSFR10V07-B GSFR10V10-B GSFR10V15-B	1.0 mm / 0.040 in " " "	0.3 m / 11.81 in 0.5 m / 19.69 in 0.6 m / 23.62 in 0.7m / 27.56 in 1.0 m / 39.37 in 1.5 m / 59.05 in				
	GSFR12V03-B GSFR12V05-B GSFR12V07-B GSFR12V10-B	1.2 mm / 0.047 in " "	0.3 m / 11.81 in 0.5 m / 19.69 in 0.7m / 27.56 in 1.0 m / 39.37 in				
	GSFR15V03-B GSFR15V04-B GSFR15V05-B GSFR15V07-B GSFR15V10-B GSFR15V15-B	1.5 mm / 0.059 in " " "	0.3 m / 11.81 in 0.4 m / 15.75 in 0.5 m / 19.69 in 0.7m / 27.56 in 1.0 m / 39.37 in 1.5 m / 59.05 in				
	GSFR16V03-B GSFR16V04-B GSFR16V05-B GSFR16V15-B	1.6 mm / 0.063 in " "	0.3 m / 11.81 in 0.4 m / 15.75 in 0.5 m / 19.69 in 1.5 m / 59.05 in				



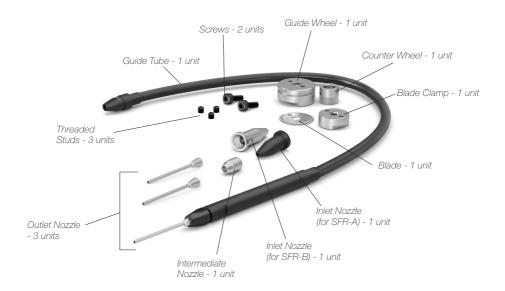
This manual corresponds to the following references:

GSFR[XX]D[LL]-B Without Solder Wire Perforation							
GSFN _[\wedge	\ D [LL] -D <u>Without</u> Solu		 				
	Ref.	i <u>Wire Diameter Ø</u>	Tube Length				
	GSFR05D03-B GSFR05D05-B GSFR05D07-B GSFR05D10-B	Ø0.46 - 0.56 mm / Ø0.018 - 0.022 in " "	0.3 m / 11.81 in 0.5 m / 19.68 in 0.7 m / 27.92 in 1.0 m / 39.37 in				
	GSFR06D03-B	Ø0.60 - 0.64 mm / Ø0.023 - 0.025 in	0.3 m / 11.81 in				
	GSFR07D03-B GSFR07D07-B	Ø0.70 - 0.78 mm / Ø0.028 - 0.031 in	0.3 m / 11.81 in 0.7 m / 27.92 in				
	GSFR08D03-B GSFR08D05-B GSFR08D06-B GSFR08D07-B GSFR08D10-B	Ø0.80 - 0.82 mm / Ø0.032 - 0.033 in " " " "	0.3 m / 11.81 in 0.5 m / 19.68 in 0.6 m / 23.62 in 0.7 m / 27.92 in 1.0 m / 39.37 in				
	GSFR10D03-B GSFR10D06-B GSFR10D07-B GSFR10D10-B	Ø0.90 - 1.10 mm / Ø0.036 - 0.044 in " "	0.3 m / 11.81 in 0.6 m / 23.62 in 0.7 m / 27.92 in 1.0 m / 39.37 in				
	GSFR12D03-B GSFR12D05-B GSFR12D10-B	Ø1.14 - 1.27 mm / Ø0.045 - 0.051 in "	0.3 m / 11.81 in 0.5 m / 19.68 in 1.0 m / 39.37 in				
	GSFR15D03-B GSFR15D04-B GSFR15D05-B GSFR15D10-B GSFR15D15-B	Ø1.50 - 1.57 mm / Ø0.060 - 0.063 in " " " "	0.3 m / 11.81 in 0.4 m / 15.75 in 0.5 m / 19.68 in 1.0 m / 39.37 in 1.5 m / 59.05 in				
	GSFR16D03-B GSFR16D04-B GSFR16D05-B GSFR16D07-B GSFR16D15-B	Ø1.60 - 1.63 mm / Ø0.063 - 0.065 in " " "	0.3 m / 11.81 in 0.4 m / 15.75 in 0.5 m / 19.68 in 0.7 m / 27.92 in 1.5 m / 59.05 in				

Packing List

Guide Kit for Robot with Solder Wire Perforation

The following items are included (more information at page 11).





Manual 1 unit

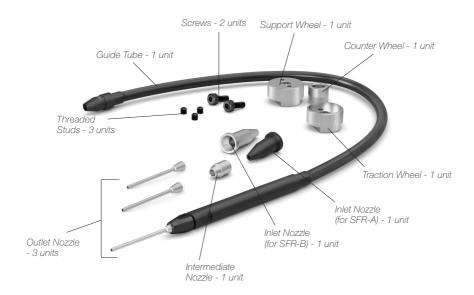
Ref. 0030637



Packing List

Guide Kit for Robot without Solder Wire Perforation

The following items are included (more information at page 12).





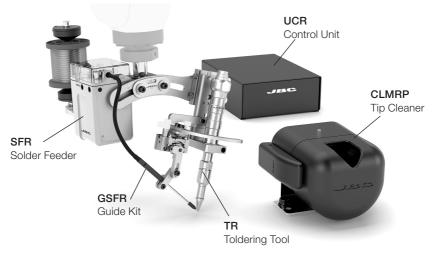
Manual 1 unit

Ref. 0030637

Features

The Guide Kit GSFR is designed to be used with the Solder Feeder SFR in automatic soldering processes.

Work Place Examples with TR Soldering Tool



Work Place Examples with TRA Automatic Soldering Tool and CSR Cartridge Exchanger





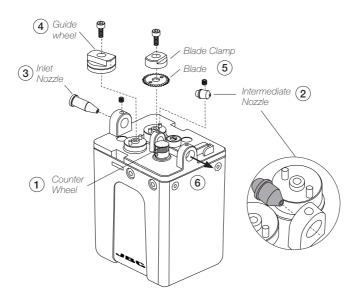
Assembly: GSFR Wheels to SFR

For this operation, disconnect the device, and take off the cover by pressing the tabs.

Use the allen key and the spanner provided with SFR for the following steps. First disassemble the guide tube (6), the Support and Traction wheels or the Guide Wheel, Blade and Bade Clamp (4)+(5). Then, disassemble the nozzles (2)+(3). Disassemble the Counter Wheel (1) if needed*.

Assembly with Solder Wire Perforation

- 1. Assemble the counter wheel (1) if needed*.
- 2. Insert the intermediate nozzle (2) until its collar rests against the housing and tighten the screw.
- 3. Assemble the inlet nozzle (3) and tighten the screw.
- 4. Assemble the guide wheel (4) and tighten the screw. Attention: Always use the correct wheel set for each wire thickness.
- 5. 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.

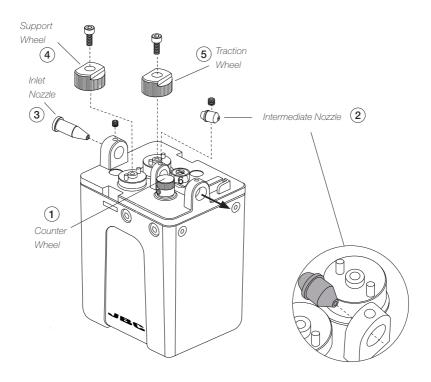


^{*} SFR comes with a counter wheel already assembled.

Only change the counter wheel if you want to work with a wire diameter that is outside the working range of the counter wheel already assembled to the SFR.

Assembly without Solder Wire Perforation

- 1. Assemble the counter wheel (1) if needed*.
- 2. Insert the intermediate nozzle (2) until its collar rests against the housing and tighten the screw.
- 3. Assemble the inlet nozzle (3) and tighten the screw.
- **4.** Assemble the support wheel (4) and tighten the screw. **Attention:** Always use the correct wheel set for each wire thickness.
- 5. Assemble the traction wheel (5) onto the axis and tighten the screw.



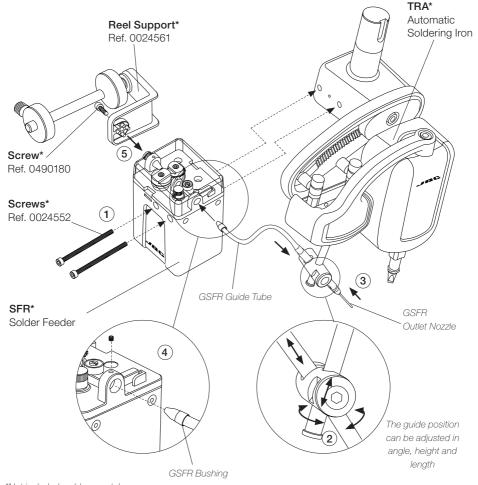
^{*} SFR comes with a counter wheel already assembled.

Only change the counter wheel if you want to work with a wire diameter that is outside the working range of the counter wheel already assembled to the SFR.



Assembly: GSFR Tube to SFR* and TRA*

- 1. Assemble SFR to TRA with the screws.
- 2. Assemble GSFR Guide Tube to TRA and tighten the screw.
- 3. Assemble the Outlet Nozzle onto the Dispensing Tube.
- 4. Assemble GSFR Bushing into SFR hole and tighten the screw.
- 5. Finally attach the Reel Support to SFR with its screw.



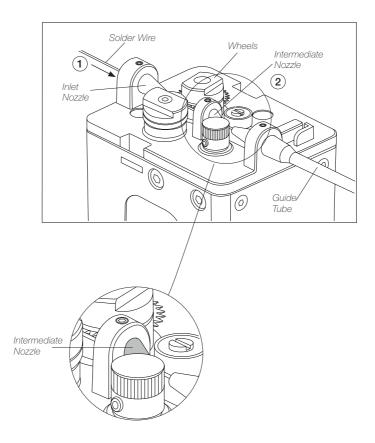
Solder Wire Loading

GSFR must be assembled previously.

- 1. Feed the Solder Wire into the Inlet Nozzle until it reaches the wheels.
- 2. Make sure the wire passes through the Intermediate Nozzle and enters into the Guide Tube.

Important: Set the wire thickness parameter before starting to dispense the wire. To set W-THI command see the Communication Protocol for SFR unit at **www.jbctools.com/jbcsoftware.html.**

Wire feeding is controlled by an external controller (Robot/PLC/Computer). To start wire loading process use W-SLD command. See the Communication Protocol for SFR unit at www.jbctools.com/ibcsoftware.html





Maintenance

- Before carrying out maintenance, always unplug the tool and the device.
- Use a damp cloth to clean the tool. Alcohol can only be used to clean the metal parts.
- Periodically check that the metal parts of the mechanism are clean.
- Keep Dispensing Nozzle Tip clean to avoid solder feeding obstruction.
- Periodically check all cables and tube connections.
- Replace any defective or damaged parts. Use original JBC spare parts only.
- Repairs should only be performed by a JBC authorized technical service.

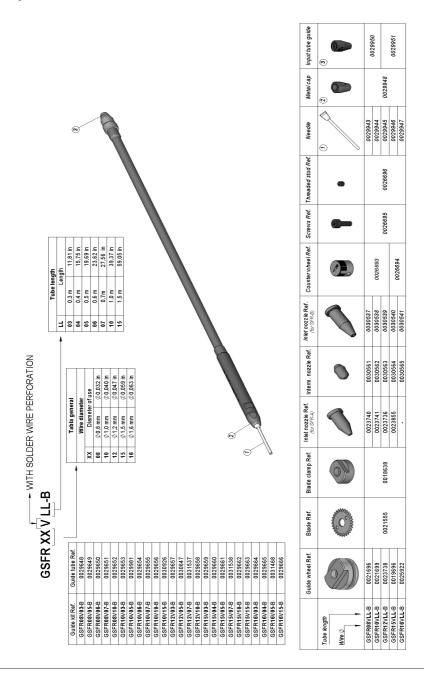
Safety



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

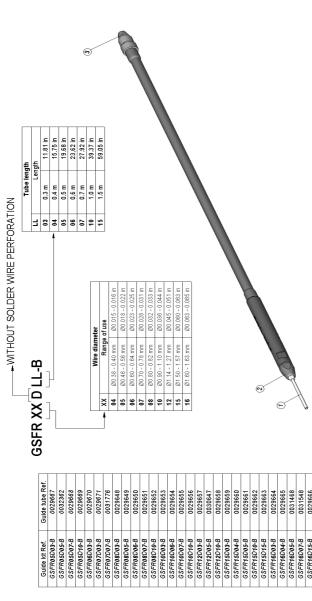
- Do not use the device for any other purpose.
- Be sure that the power supply is disconnected before changing any spare part.
- Avoid flux coming into contact with skin or eyes to prevent irritation.
- Be careful of fumes produced while soldering.
- Keep your workplace clean and tidy. Wear appropriate protective glasses and gloves while handling components to avoid personal injury.
- Utmost care must be taken with liquid tin waste which can cause burns.

Exploded View





Exploded View



Input tube guide	0.	0029949		0029950		0029951				
Metal cap	©	0029948								
Needle	0	000000	0466700	0029941	0029942	0029943	0029944	0029945	0029946	0029947
Sorews Ref. Threaded stud Ref.	9	9695200								
Sorews Ref.		0026695								
Counter wheel Ref.		0026693			0026694	100000				
Inlet nozzle Ref. (for SFR-B)		2020606	0000000	0030534	0030536	0030537	0030538	0030539	0030540	0030541
Interm. nozzle Ref.	•	0330000	002020	0030559	0030560	0030561	0030562	0030563	0030564	0030565
Inlet nozzle Ref.					0023740	0023741	0023736	0023855		
Support wheel Ref.		0020345			0019480			0019481		
Traction wheel Ref.		0019479								
	Tube kength Wire ⊕	GSFR04DLL-B	GSFR05DLL-B	GSFR06DLL-B	GSFR07DLL-B	GSFR08DLL-B	GSFR10DLL-B	GSFR12DLL-B	GSFR15DLL-B	GSFR16DLL-B

Notes	
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Notes		

Specifications

GSFR

Guide Kit for Robot with/without Solder Wire Perforation

Ref.: GSFR[XX]V[LL]-B With Solder Wire Perforation (detailed Ref. see page 2)
Ref.: GSFR[XX]D[LL]-B Without Solder Wire Perforation (detailed Ref. see page 3)

- Total Net Weight: 42 g / 0.093 lb

- Total Package Dimensions / Weight: 245 x 185 x 45 mm / 117 g (L x W x H) 9.65 x 7.28 x 1.77 in / 0.258 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.



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.

