

JBC

www.jbctools.com

INSTRUCTION MANUAL



WSS

Precision High-Temperature
Wire Stripper Station

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This manual corresponds to the following references:

WSS-9A (100V)

WSS-1A (120V)

WSS-2A (230V)

Packing List

The following items are included:



Control Unit1 unit



Stand1 unit
Ref. WSBT-A



Precision High-Temperature Wire Stripper Tweezers1 unit
Ref. WS140-A



Cartridge Holder 1 unit
Ref. SCH-A



Stand Cable 1 unit
Ref. 0024227



Power Cord1 unit
Ref. 0024092 (100V)
0023715 (120V)
0023714 (230V)



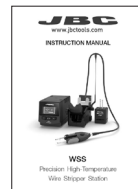
Metal Brush.....1 unit
Ref. 0022793



Cartridge Extractor Pliers 1 unit
Ref. PLR195

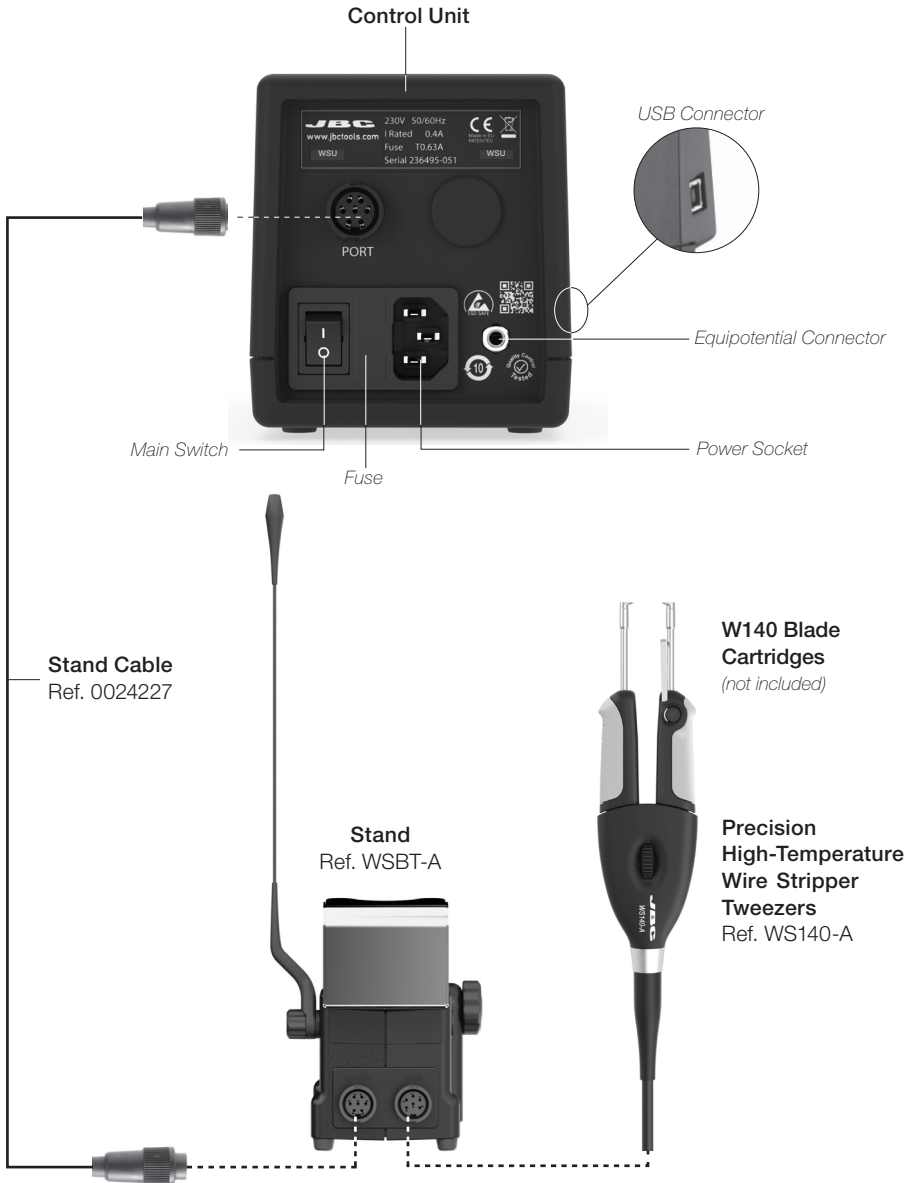


Screw Driver1 unit
Ref. 0023511



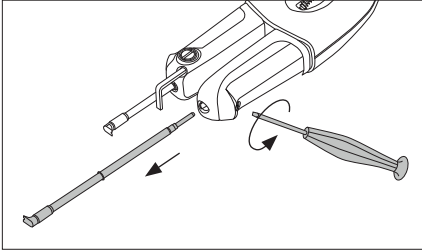
Manual 1 unit
Ref. 0027210

Features and Connections



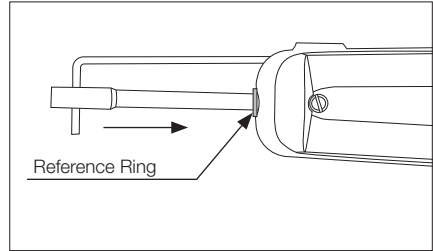
Changing Cartridges

1. Removing



Loosen the screws and remove the cartridges.

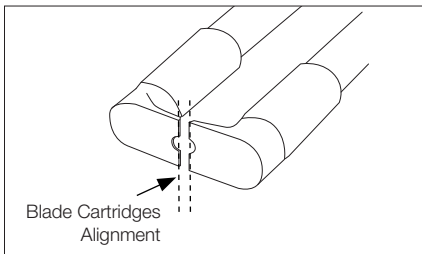
2. Inserting



Insert the cartridge until the reference ring touch against the wire stripper. Take the ring as reference and check that both tips match.

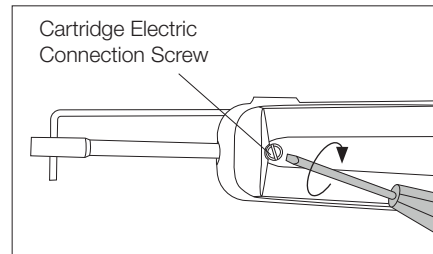
Important: It is essential to insert the cartridge till the end for a good connection.

3. Positioning



Align the tip edges and fix the cartridges in its working position.

3. Fixing

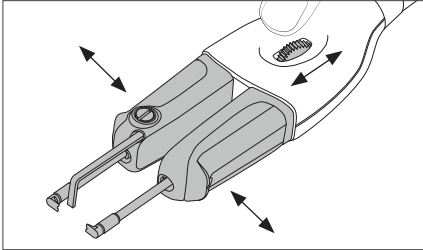


Tightening the screw.

Important: It is essential to tighten the screws for the tool to function.

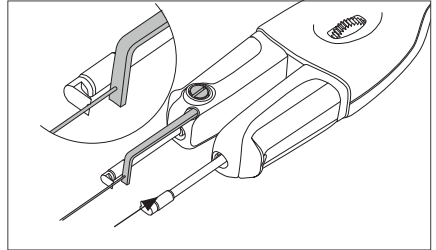
Stripping a Wire

1. Adjust Arm Position



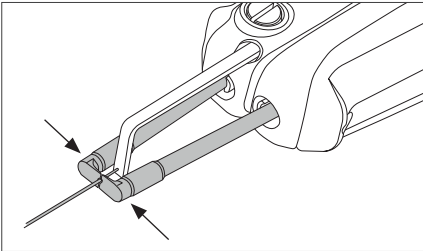
The wheel allows to adjust the wire stripper arm position according to the wire diameter. Move the wheel backward for a wider and forward for a narrower position.

2. Align Wire



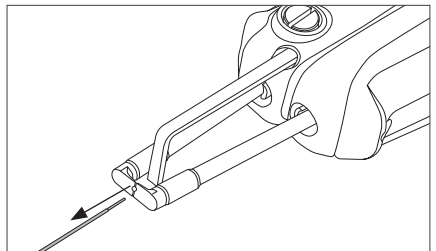
Place the wire touching the strip gauge.

3. Close Cartridges



Choose cartridges according to the wire diameter. Pinch the wire with the blades. The pinched area will be melted by heat.

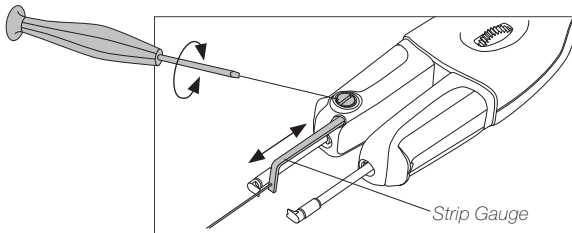
4. Remove Wire



Pull the wire stripper toward to strip off the wire end.

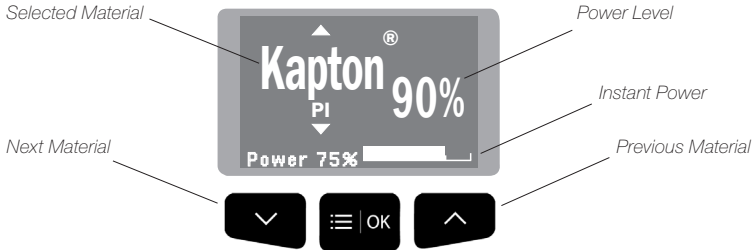
Adjustable Strip Gauge

Adjust the strip gauge according to your stripping requirements and tighten the screw.




Control Process

Work Screen





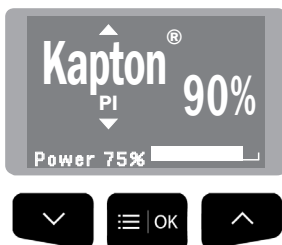
Work Mode

WSS offers two different working modes. Switch the power on choose between Material Mode and Custom Mode by pressing the  button.

1. Material Mode






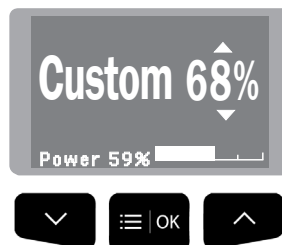
Choose between the different materials by pressing the buttons  and  to choose between all different material options.



2. Custom Mode



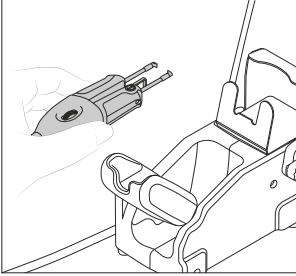
To work on a customized mode, press  and then the buttons  and  to select the power level.



Operation

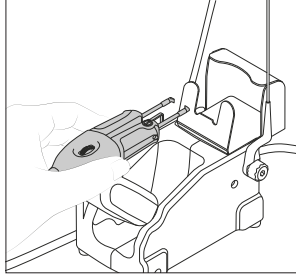
Depending on where the tool is located, the soldering station switches between three different statuses: Work, Sleep and Hibernation.

1. Work



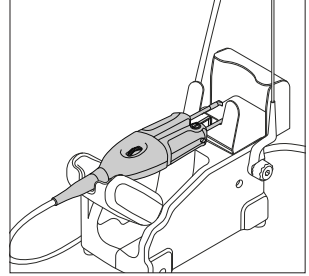
When the wire stripper is lifted from the stand, the cartridges will heat up according to the selected configuration.

2. Sleep

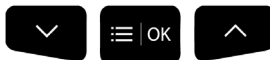
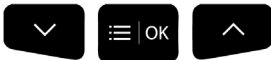
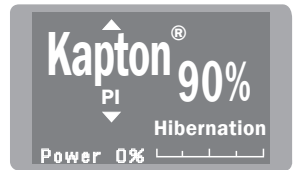
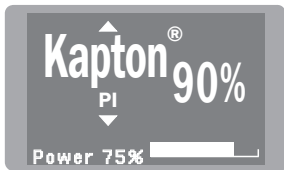


When the wire stripper is in the stand, the power falls after a specified time.

3. Hibernation



After longer periods of inactivity, the power is cut off and the cartridges cool down to room temperature.



Troubleshooting

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

Material Mode

WSS incorporates predetermined power levels and it also features a customized work mode. It allows you to work on wire insulations made of thermoplastics and thermostable materials such as **Teflon**¹, **Kapton**², **silicone**, **rubber**, etc.

Options included:

	Insulation Material	Symbol	Power Level
Thermoplastics	Polyvinyl Chloride	PVC	6%
	Polyethylene	PE	7%
	Nylon ¹	PA	10%
	Kynar ²	PVDF	16%
	Tefzel ¹	ETFE	17%
Thermostable	Teflon ¹	FEP	16%
		PFA	21%
		PTFE	40%
	Ethylene Propylene Rubber	EPM/EPR	44%
	Silicone Rubber	SI	51%
Kapton ¹	PI	90%	

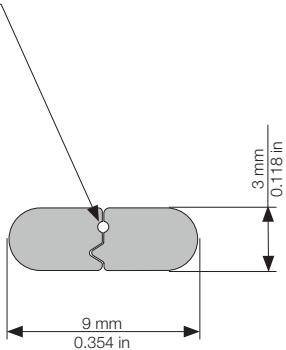
¹ Registered Trade Marks of DuPont

² Registered Trade Marks of Arkema

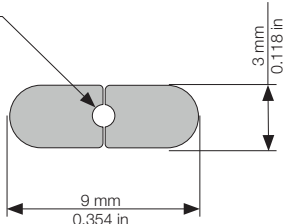
Cartridge Range

WS140-A is compatible with **W140** Blade Cartridge Range. Find the model that best suits your soldering needs on www.jbctools.com.

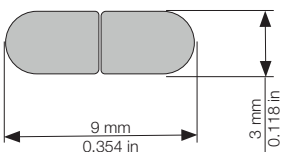
Cartridge Ref.	Tip Hole \varnothing mm / in	AWG Solid	AWG Stranded
W14040G	0,08 / 0,0031	40	x
W14038G	0,10 / 0,0039	38	x
W14037G	0,11 / 0,0043	37	x
W14036G	0,13 / 0,0051	36	x
W14034G	0,16 / 0,0063	34	36 (7x44)
W14032G	0,20 / 0,0079	32	34 (7x42)
W14030G	0,25 / 0,0098	30	32 (19x44)
W14028G	0,32 / 0,0126	28	30 (7x38)
			30 (19x42)
W14026G	0,40 / 0,0157	26	28 (19x40)
			27 (7x35)
W14024G	0,51 / 0,0201	24	26 (19x38)
			26 (10x36)



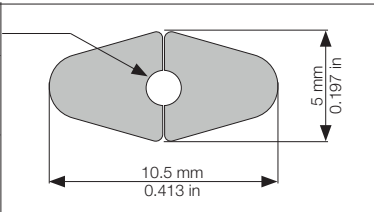
Cartridge Ref.	Tip Hole \varnothing mm / in	AWG Solid	AWG Stranded
W14022G	0,64 / 0,0252	22	24 (19x36)
			24 (7x32)
W14020G	0,81 / 0,0319	20	22 (19x34)
W14018G	1,02 / 0,0402	18	20 (42x36)
			20 (19x32)
			20 (7x28)



Cartridge Ref.	Tip mm / in
W14003F	Flat Tip 3 / 0.118

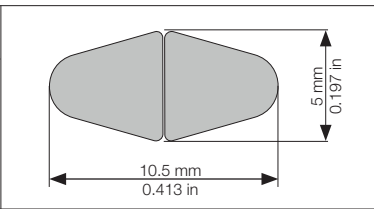


Cartridge Ref.	Tip Hole ø mm / in	AWG Solid	AWG Stranded
W14016G	1,29 / 0,0508	16	18 (19x30)
W14014G	1,63 / 0,0642	14	16 (7x24)



The diagram shows a cross-section of a blade tip with a central hole. The width is 10.5 mm (0.413 in) and the height is 5 mm (0.197 in). Arrows indicate the measurement directions.

Cartridge Ref.	Tip mm / in
W14005F	Flat Tip 5 / 0.197



The diagram shows a cross-section of a blade tip with a flat top surface. The width is 10.5 mm (0.413 in) and the height is 5 mm (0.197 in). Arrows indicate the measurement directions.

If an application requires a special tip design, contact JBC by mail customtips@jbctools.com for special blade cartridges.

Accessories

Flat Screw Driver

To open or fix the wire stripper screws use JBC Flat Screw Driver Ref. 0023511.

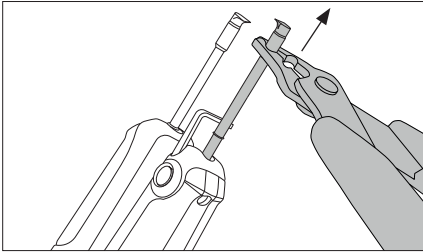


Cartridge Extractor Pliers

To manipulate the cartridges use JBC Cartridge Extractor Pliers Ref. PLR195. More Information at www.jbctools.com

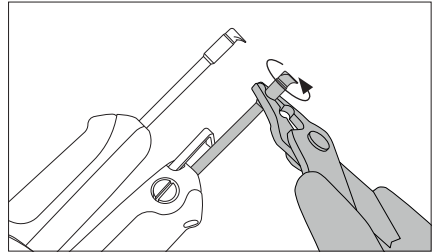


Removing



Remove cartridges with JBC pliers.

Inserting and Positioning



Align cartridges with JBC pliers.

Metal Brush

For cleaning the tips if unwanted material is stuck there. Metal Brush Ref. 0022793.



Pedal Kit for Control Units

Pedal P305 can be used to activate/deactivate the Wire Stripper. Previously the Hibernation delay has to be set to 0 min.

Lift the wire stripper from the stand, press and hold the pedal to activate them and strip the wire. Once the pedal is released the wire stripper enters in Hibernation. To reverse the pedal functionality flip the switch of the connection box.

Default PIN: 0105.

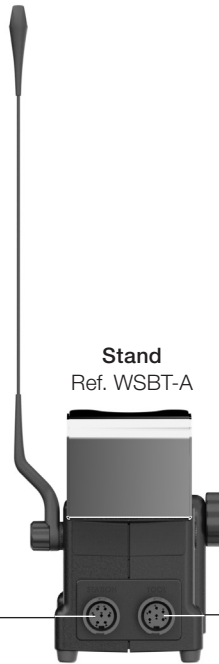
Precision High-Temperature Wire Stripper Tweezers Ref. WS140-A



Control Unit



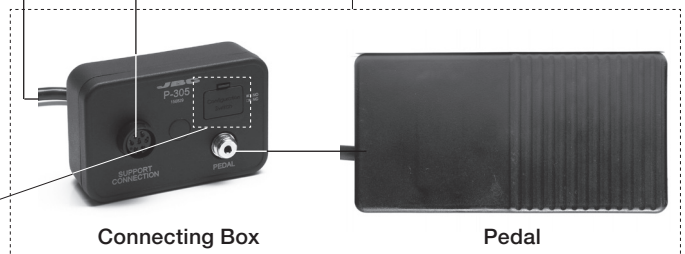
Stand Ref. WSBT-A



Pedal Kit for Control Units

Ref. P-305
(not included)

To reverse the pedal functionality from **NO** (Normally Open) to **NC** (Normally Close)



Connecting Box

Pedal

Maintenance

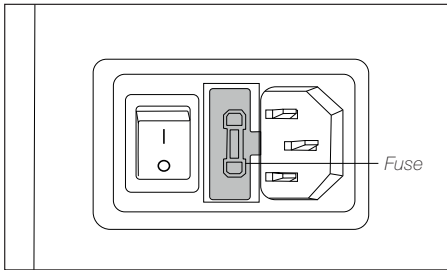
Before carrying out maintenance or storage, always allow the equipment to cool down and unplug the stand from the station and the tool.

- Clean the station screen with a glass cleaner or a damp cloth.
- Use a damp cloth to clean the casing, the stand and the tool. Alcohol can only be used for cleaning 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 in order to ensure a correct stripped wire.
- Periodically check all cables.
- Replace a blown fuse as follows (see specification chart) :

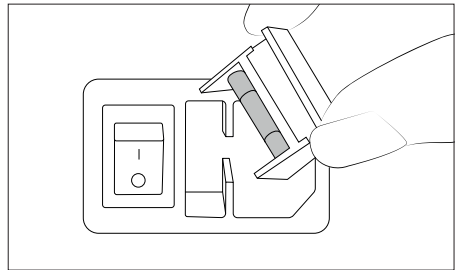


Clean periodically

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



2. Press the new fuse into the fuse holder and replace it in the station.



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

Safety

Warning

- Do not touch the blade or the metal parts around.
- Do not allow the blade be close to flammable materials.
- Keep your workplace clean and tidy. Wear appropriate protection glasses and gloves when working to avoid personal harm.
- 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.
- Maintenance must not be carried out by children unless supervised.
- Place the tool on the stand when is not in use.
- Turn off the power when not in use, changing parts or storing.

Caution

- Do not use the Wire Stripper for other applications than wire stripping.
- Do not modify or customize the Wire Stripper.
- Do not hit the blade against workbench to eliminate stripped insulation debris. This behavior would damage the blade.
- Remove power from the tool by holding the plug, not the wires.
- Be careful with the fumes produced when stripping. We recomend to use our fume extractor.

Specifications

WSS

Precision High-Temperature Wire Stripper Station

Ref.: **WSS-9A** 100V 50/60Hz. Input fuse: 1.6A. 5x20mm Output: 15V.

Ref.: **WSS-1A** 120V 50/60Hz. Input fuse: 1.25A. 5x20mm Output: 15V.

Ref.: **WSS-2A** 230V 50/60Hz. Input fuse: 0.63A. 5x20mm Output: 15V.

- Max. Temperature: 800 °C / 1472 °F
- Power: 75W
- Ambient operating temp: 10 to 50 °C / 50 to 120 °F
- Connections: USB-B
- Control Unit Dimension: 180 x 94 x 106 mm
(L x W x H) 7.09 x 3.70 x 4.17 in

- Total Net Weight: 3.80 kg / 8.39 lb
- Total Package Dimension/Weight: 368 x 368 x 195 mm / 4.63 kg
(L x W x H) 14.49 x 14.49 x 7.68 in / 10.20 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.

