

JBC

www.jbctools.com

INSTRUCTION MANUAL



Starter Kit for Robot Emulation

Ref. SKR-A

Packing List

The following items should be included:

Starter Kit for Robot Emulation..... 1 unit
Ref. SKR-A



USB A/B Cable1 unit
Ref. 0020749



Communications cable 3m1 unit
Ref. 0021333



AC Adapter 1 unit
Ref. 0020597



Manual1 unit
Ref. 0021922



Download the **Robot Control software, available in www.jbctools.com/jbcsoftware.html*

Features

The Starter Kit (SKR) facilitates the integration of the following JBC Devices in automated soldering processes:

- **UCR** - Control Unit for Automation (serial communication RS-232*)
- **SFR** - Solder Feeder for Automation (serial communication RS-232*)
- **CLMR** - Tip Cleaner for Automation (on/off switch input*)

*See corresponding "Communication Protocol" at www.jbctools.com/jbcsoftware.html.



Connection Modes

The SKR allows two connection modes, the **Control Mode** and the **Sniffer Mode**. In both modes the SKR and a PC are needed. PC must have the **Robot Control** previously installed (download at www.jbctools.com/jbcsoftware.html).

- **Control Mode:** with this mode you can command/get answered communications frames, which are sent between the PC and the JBC Device.
- **Sniffer Mode:** this mode is used to intercept the communication frames sent/answered between the Robot/PLC and the JBC Device. This mode also facilitates the debugging of the **Robot Control** software by Frame decoding and visualization in real time.

Assembly: Control Mode

1. Connect de PC and the SKR using the USB A/B Cable.
2. Connect the JBC Device and the SKR using the Communications Cable.
3. Connect SKR to the mains connection with the power supply cable. Blue LED indicates that the connection to the mains is established.
4. The Push Button allows switching on/off the JBC Device by pushing it.

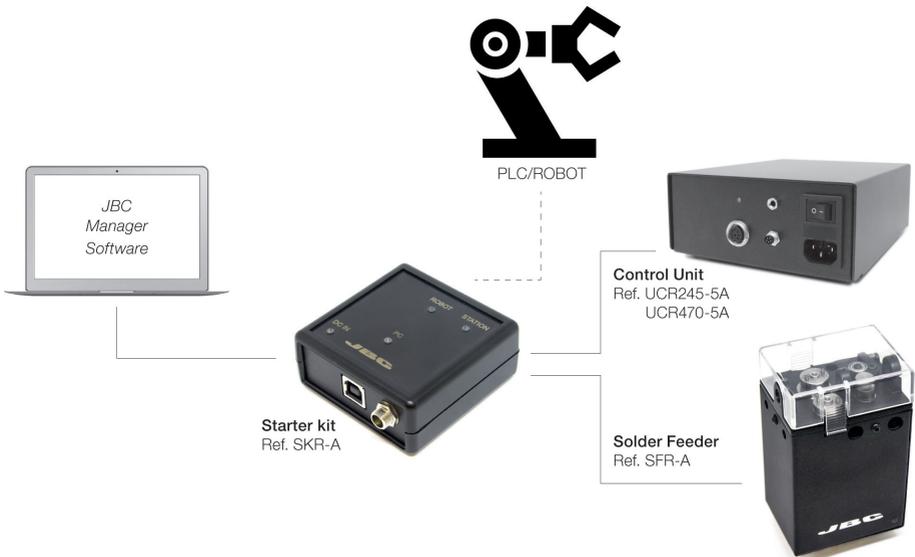
When communications frames between PC and JBC Device are sent/answered, then the green LEDs will flash.



Assembly: Sniffer Mode

1. Disconnect the Communications Cable from the JBC Device and connect it to the SKR's Communications Connector (male).
2. Connect the JBC Device and the SKR using the Communications Cable included.
3. Connect the PC and the SKR using the USB A/B Cable.
4. Connect SKR to the mains connection with the power supply cable. Blue LED indicates that the connection to the mains is established.

When communications frames between PC and JBC Device are sent/answered, then the green LEDs will flash.



For more information about the **Robot Control** software, download its manual in www.jbctools.com/jbcsoftware.html.

Maintenance

- Before carrying out maintenance, always allow the equipment to cool down.
- Periodically check all cables and connections.
- Replace any defective or damaged part. Use original JBC spare parts only.
- Repairs should only be performed by JBC and 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 purpose other purpose.
- The main cable must be plugged into approved bases. Make sure that it is properly grounded before use. When unplugging it, hold the plug, not the wire.
- Be sure that the power supply is disconnected before changing any spare part.
- Be careful with the fumes produces when soldering.
- Keep your workplace clean and tidy. Wear appropriate protection glasses and gloves when working to avoid personal injury.

Specifications

SKR-A

- Net Weight: 490 g (1.1 lb)
- Dimensions: 78,5 x 66,5 x 29 mm (3.1 x 2.6 x 1.1 in)
- Connections: USB connector type B
Power connector
Communications connector (male)
Communications connector (female)

AC Adapter

- Input Voltage Range: 100-240V ~ 50/60Hz
- Max. Input current: 2A
- Output Voltage: 24V
- Max. Output current: 2A

Complies with CE standards.
ESD protected.

JBC

Warranty

JBC's two-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 case of any manufacturing defect, the 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 2002/96/EC, electronic equipment at the end of their life must be collected and returned to an authorized recycling facility.



Manual in other languages available on our website

www.jbctools.com