



JBC UCR245-5A Control Box for Robot Instruction Manual

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JBC

JBC UCR245-5A Control Box for Robot



This manual corresponds to the following references:

- UCR245-5A
- UCR470-5A

Packing List

Either Ref. UCR245-5A or Ref. UCR470-5A is included in UCR box:



Control Box for Robot 1 unit



Tool Cable 3m 1 unit
Ref. 0027924



Power Cord 1.5m 1 unit
Ref. 0023714 (230 V)



Communications
Cable 3m 1 unit
Ref. 0024563



Manual 1 unit
Ref. 0027876

Functions

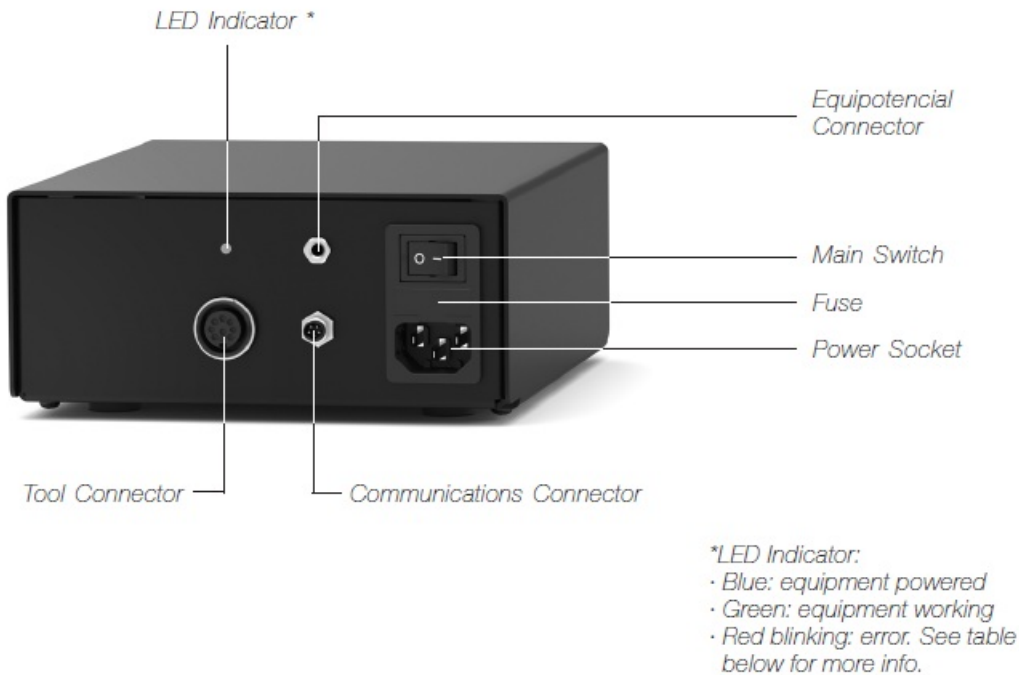
There are up to 44 functions* to control the station, such as:

- Temperature Control
- Sleep and Hibernation Control

- Station Status
- Error Information
- Counters (Working Time, Sleep, Hibernation...)

Download the Robot Communication Protocol for UCR unit at www.jbctools.com/jbcsoftware.html

Features



Trouble shooting

In case of error, a red light flashes a certain number of times, indicating an error number as shown in the table below:

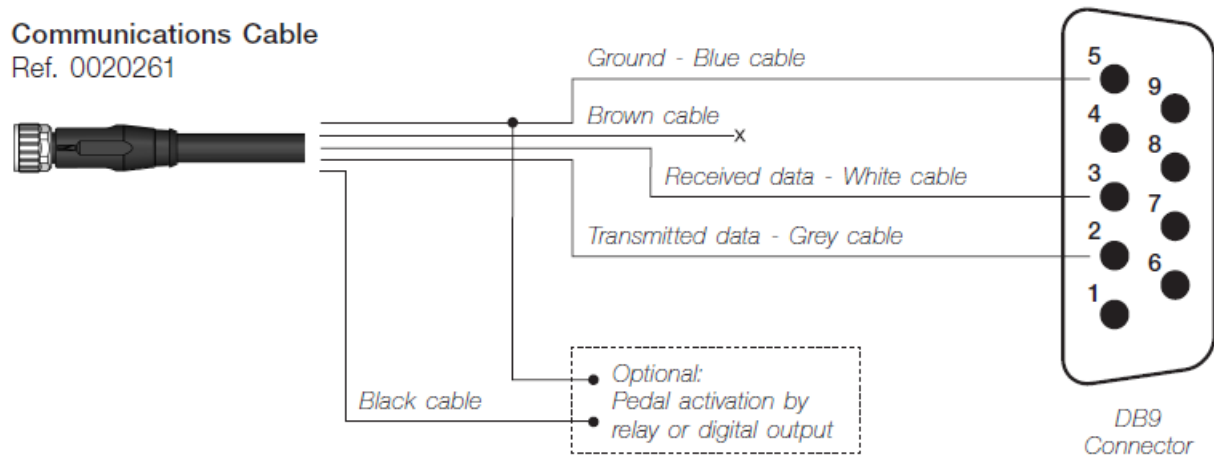
Nº Error	Description	Solution
1 times	Short-circuit	Replace Cartridge
2 times	Open circuit	Replace Cartridge
3 times	Tool not accepted	Check if the tool is compatible with the Contron Box
4 times	Tool detection error	Check the tool
6 times	Current usage leads to overloading	Due to overload wait until the device has cooled down
7 times	Short-circuit	Check if the cartridge is compatible with the Control Box
12 times	Memory error	Reset the Control Box

Connection

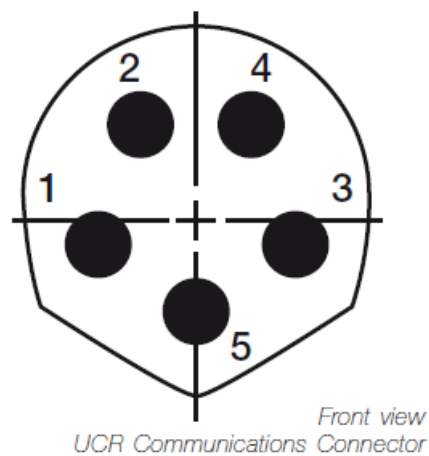
- UCR can be connected to a PLC by a five-pin Communications Cable (Ref. 0020261).
- For a proper connection, it is necessary to connect only three cables to the corresponding 3 pins at a typical DB9 male connector (PLC or computer).

- Download the Robot Communication Protocol at www.jbctools.com

Communications Cable

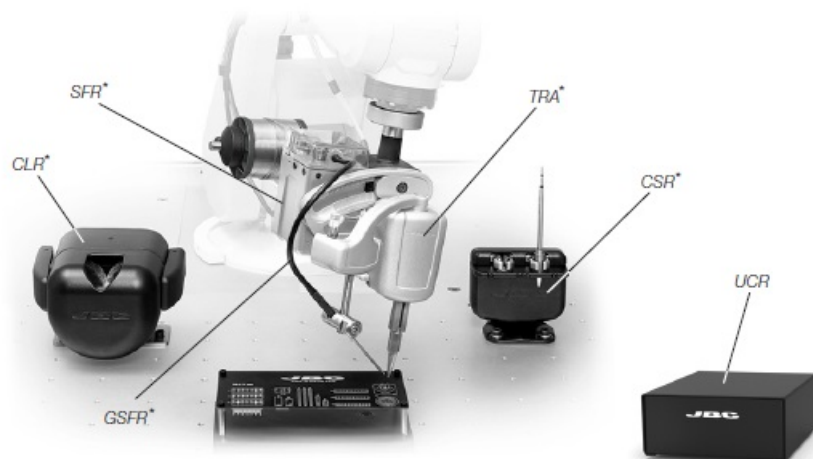
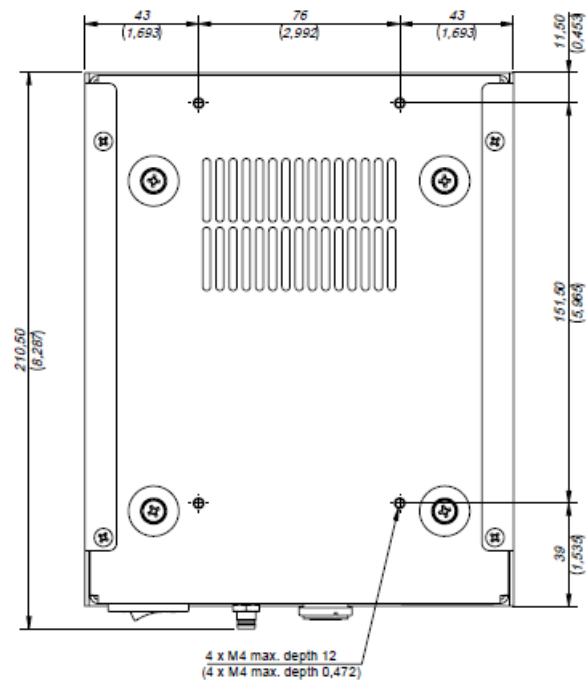


For detailed information about pin distribution see following table:



Pin Distribution		
Pin	Color	Description
1	Brown	Not used
2	White	Serial input: RS232 RX
3	Blue	Common reference: GND for RS232 and witch
4	Black	Switch input: 0V or 24V to start feeding. Leave it open to stop
5	Grey	Serial output: RS232 TX

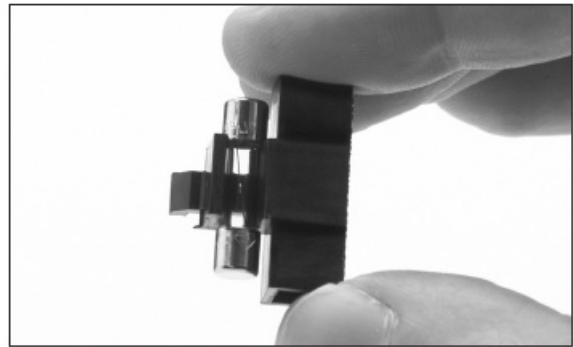
Dimensions



- Before carrying out maintenance, always disconnect the power supply and allow the equipment to cool down.
- Periodically check all cable and tube connections.

- Replace a blown Fuse as follows:

1. Pull off the Fuse Holder and remove the Fuse. If necessary, use a flat screwdriver to lever it off.
2. Insert the new Fuse into the Fuse Holder and return it to the station.



Safety

- Do not use the equipment for any purpose other than soldering or rework. Incorrect use may cause fire.
- 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.
- Do not leave the appliance unattended while it is on.
- Be sure that the power supply is disconnected before changing any spare part.
- The temperature of accessible surfaces may remain high after the device is turned off. Handle with care.
- Heat can cause inflammable products to ignite even when not visible.
- 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.

Specifications

UCR245-5A 100 – 240V 50/60Hz. Input fuse: 2.5A. Output: 21V.

- Output Peak Power: 160W
- Temperature Range: 90 – 450 °C / 190 – 840 °F
- Total Net Weight: 2581 g / 5.69 lb
- Package Dimensions/Weight: 328 x 258 x 208 mm / 3160 g (L x W x H) 12.91 x 10.16 x 8.019 in / 6.97 lb

UCR470-5A 100 – 240V 50/60Hz. Input fuse: 3.5A. Output: 42V.

- Output Peak Power: 250W
- Temperature Range: 90 – 500 °C / 190 – 930 °F
- Total Net Weight: 2635 g / 5.81 lb
- Package Dimensions/Weight: 328 x 258 x 208 mm / 3215 g (L x W x H) 12.91 x 10.16 x 8.019 in / 7.09 lb

UCR245-5A and UCR470-5A

- Idle Temp. Stability (still air): $\pm 1.5^{\circ}\text{C}$ / $\pm 3^{\circ}\text{F}$
- Tip to ground resistance: $< 2\ \text{ohms}$
- Tip to ground voltage: $< 2\text{mV RMS}$
- Ambient operating temp: $10 - 40^{\circ}\text{C}$ / $50 - 104^{\circ}\text{F}$
- Connections: Communications: M8-5pins Tool: M16-8pins
- Unit Dimensions: 210 x 162 x 75 mm (L x W x H) 8.3 x 6.4 x 3.0 in



Warranty

JBC's 2 year warranty covers this equipment against Q 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

DISPOSAL

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.

Documents / Resources

<div> www.jbctools.com INSTRUCTION MANUAL</div> <div></div> <div>UCR Control Box for Robot</div>	<p>JBC UCR245-5A Control Box for Robot [pdf] Instruction Manual UCR245-5A Control Box for Robot, Control Box for Robot, Box for Robot, UCR470-5A</p>
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References

- [JBC JBC Soldering and Rework equipment for electronics](#)
- [JBC JBC Software](#)
- [JBC Warranty Extension](#)