

IMPORTANT: Read before using



Operating/Safety Instructions

LED Illumination for STEPCRAFT CNC/ 3D Systems



Original Operating/Safety
Instructions

Date of 28.04.2016

Call for consumer information

Customers from outside the U.S.

STPCRAFT GmbH & Co. KG
An der Beile 2
58708 Menden
Germany
Phone: 0049-2373-179 11 60
E-mail: info@stepcraft-systems.com

Call for consumer information

Customers from the U.S. / Canada

STPCRAFT Inc.
59 Field Street, Rear Building
Torrington, CT, 06790
United States
Phone: 001-203-5561856
E-mail: info@stepcraft.us



IMPORTANT: Read before using!

Operating and safety instructions

NOTICE

All instructions, warranties and other collateral documents are subject to change at the sole discretion of STEPCRAFT, Inc. For up-to date product literature, visit www.stepcraft-systems.com for customers from Europe or www.stepcraft.us for customers from US / Canada and click on the service & support tab for this product.

Age Recommendation: For advanced handcrafters ages 14 and above. This is not a toy.

SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE.

Should you encounter any doubts or require any further information, please do not hesitate to contact us before usage. Our contact details can be found on the front page of this manual.

General notice for the installation of the LED Illumination in connection with the 4th Axis Module



The simultaneous use of the LED Illumination and the 4th Axis Module is currently not possible. For the installation of both components individual modifications would be necessary, which could lead to consequences not covered by warranty.

General safety warnings for the LED Illumination

Electrical safety



Only use the LED Illumination according to this manual. An unauthorized electrical connection of the LED Illumination increases the risk of an electric shock.

Parts and functions of the LED Illumination

- (1) LED Illumination
- (2) Constant voltage regulator
- (3) Cable tie
- (4) Cable channels



Assembly of the LED Illumination

NOTICE

Prior to the assembly, we recommend to move the X-axis to approx. 15 cm before its rear end.

1. Place the STEPCRAFT CNC / 3D System onto its side and loosen the screws of the mainboard cover. Take it off and set it aside.



2. Set the STEPCRAFT CNC / 3D System again in an upright position and loosen the cable channel underneath the X-motor.



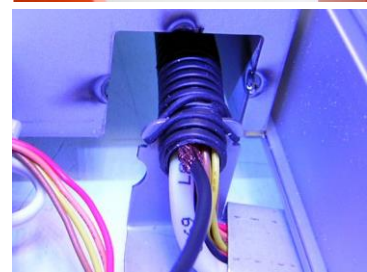
3. Carefully set aside the cables and drill a hole into the gantry upright just below the X-profile using a steel drill of Ø 4 mm.



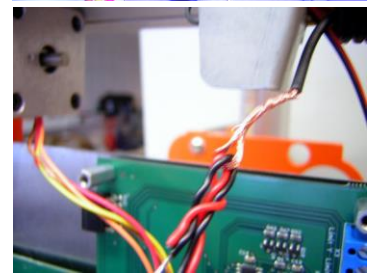
4. Degrease the underside of the X-profile and affix the LED Illumination to the cleaned surface. Guide the connection cable through the drilled hole in the gantry upright before leading it through the cable channel in the gantry upright downwards to the cable tube.



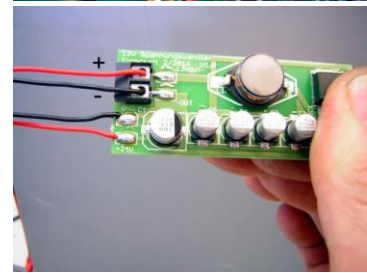
5. Take a wire or the like and guide it through the cable tube. This way, it will be easier to pull the cables through.



6. Form a loop with the end of the wire and attach to it the connection cable of the LED Illumination. Pull the wire through the cable tube.



7. Take the constant voltage regulator and guide both cable ends of the LED Illumination into the terminal as pictured. Afterwards, tighten both screws in the terminal. **Pay attention to the colors of the cables in order to prevent voltage reversal!**

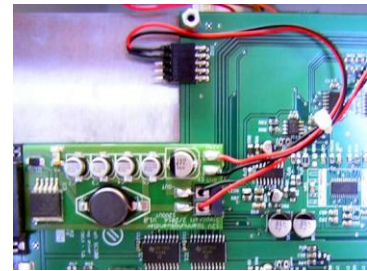
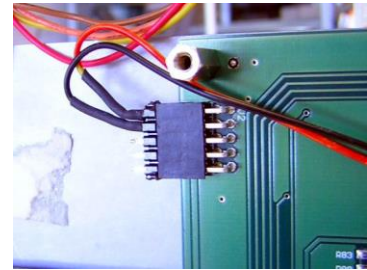


8. Affix the constant voltage regulator onto the machine control as pictured.



9. Connect the constant voltage regulator to the port of the 4th Axis Module. **Make sure to insert the connection cable of the regulator exactly as pictured!**

Arrange the cables with the help of the cable ties and reattach the mainboard cover. Afterwards, mount the machine table anew.



10. Take the cable channels and attach them to the gantry upright. **When upgrading an existing machine, cut a small slot into the upper cable channel prior to attaching it.**



Technical data of the LED Illumination

Light output:	3,60 Watt (SC 300)
	5,04 Watt (SC 420)
	6,48 Watt (SC 600)
	9,36 Watt (SC 840)
Operating voltage:	12 Volt