

4XCNCJC MANUAL CNC INTERFACE

DELAGRANGE TECHNOLOGY LLC

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!!WARNING!!

If this board is used to control dangerous or potentially harmful equipment, Delagrange Technology LLC will not be held responsible for any injuries that result. Use at your own risk.

ROTARY HEX ENCODER

The supplied Hex Encoder is setup in the 4XCNCJC software in the following manner :

Positions read clockwise

If the hex encoder is set for a increment and a jog button is held down it will take consecutive groups of steps with a 1 second delay in-between.

12 o-clock position - infinite movement motor moves as long as button is pressed

1 - 1 step

2 - 2 steps

3 - 5 steps

4 - 10 steps

5 - 20 steps

6 - 25 steps

7 - 50 steps

8 - 100 steps

9 - 200 steps

10 - 250 steps

11 - 500 steps

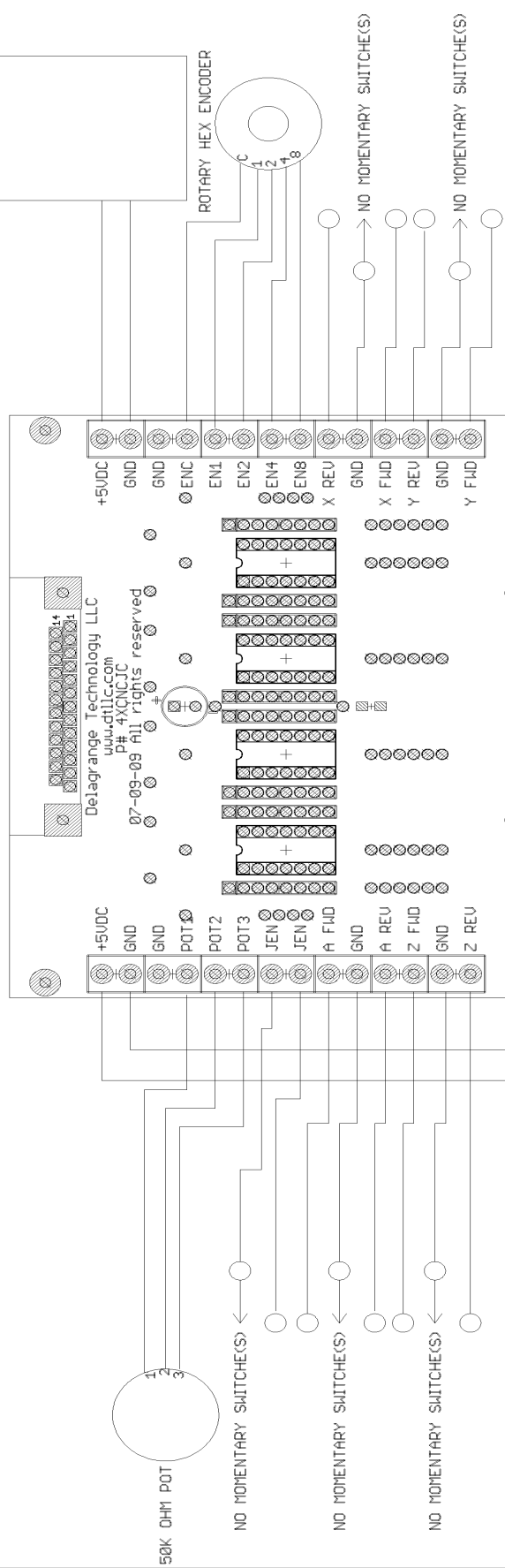
12 - 1000 steps

13 - 1500 steps

14 - 2000 steps

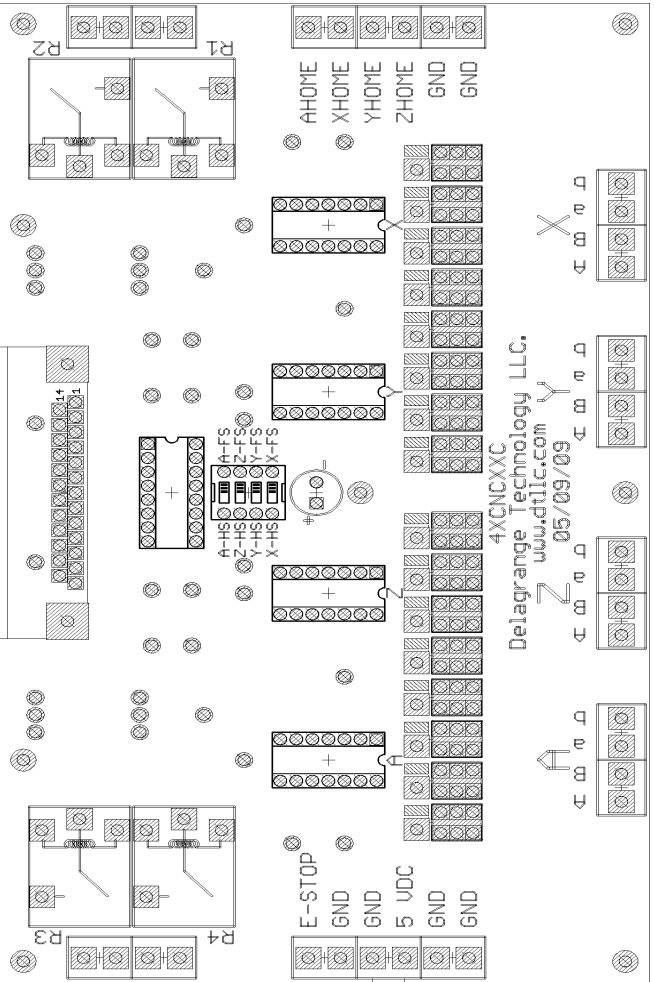
15 - 4000 steps

5VDC POWER SUPPLY
FILTERED AND REGULATED



DB2510B25F06
DB2510B25F10
DB2510B25F25

< 4XCNCJC PLUGS DIRECTLY INTO 4XCNCXX BOARDS OR USE ONE OF THE BELOW CABLES



DB25 INPUT Pinout

- 1 (relay 1) a high on this pin closes contacts
- 2 (x Direction IN) High / Low changes direction of x stepper
- 3 (x Step IN) number of pulses = number of steps for x stepper
- 4 (y Direction IN) High / Low changes direction of y stepper
- 5 (y Step IN) number of pulses = number of steps for y stepper
- 6 (z Direction IN) High / Low changes direction of z stepper
- 7 (z Step IN) number of pulses = number of steps for z stepper
- 8 (a Direction IN) High / Low changes direction of a stepper
- 9 (a Step IN) number of pulses = number of steps for a stepper
- 10 E-Stop/Limits when this pin is grounded software stops all motion can be configured for a high instead of low in the software.
- 11 (X home) home switch for the x axis can be low or high depends on software settings
- 12 (y home) home switch for the y axis can be low or high depends on software settings
- 13 (z home) home switch for the z axis can be low or high depends on software settings
- 14 (Relay 2) a high on this pin closes contacts
- 15 (a home) home switch for the a axis can be low or high depends on software settings
- 16 (Relay 3) Spindle a high on this pin closes contacts
- 17 (Relay 4) Drive enable a high on this pin closes contacts
- 18 Gnd
- 19 Gnd
- 20 Gnd
- 21 Gnd
- 22 Gnd
- 23 Gnd
- 24 Gnd
- 25 Gnd

DB25 OUTPUT Pinout

- 1 (relay 1 of 4XCNCXXX) computer signal passes through board to this pin**
- 2 (x Direction OUT) High / Low changes direction of x stepper**
- 3 (x Step OUT) number of pulses = number of steps for x stepper**
- 4 (y Direction OUT) High / Low changes direction of y stepper**
- 5 (y Step OUT) number of pulses = number of steps for y stepper**
- 6 (z Direction OUT) High / Low changes direction of z stepper**
- 7 (z Step OUT) number of pulses = number of steps for z stepper**
- 8 (a Direction OUT) High / Low changes direction of a stepper**
- 9 (a Step OUT) number of pulses = number of steps for a stepper**
- 10 E-Stop/Limits when this pin is grounded software stops all motion can be configured for a high instead of low in the software.**
- 11 (X home) home switch for the x axis can be low or high depends on software settings**
- 12 (y home) home switch for the y axis can be low or high depends on software settings**
- 13 (z home) home switch for the z axis can be low or high depends on software settings**
- 14 (Relay 2 of 4XCNCXXX) computer signal passes through board to this pin**
- 15 (a home) home switch for the a axis can be low or high depends on software settings**
- 16 (Relay 3 of 4XCNCXXX) computer signal passes through board to this pin**
- 17 (Relay 4 of 4XCNCXXX) computer signal passes through board to this pin**
- 18 Gnd**
- 19 Gnd**
- 20 Gnd**
- 21 Gnd**
- 22 Gnd**
- 23 Gnd**
- 24 Gnd**
- 25 Gnd**

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