Knitic: 'How to use Knitic' tutorial

Step 1. Use Processing 2.0b.8 version

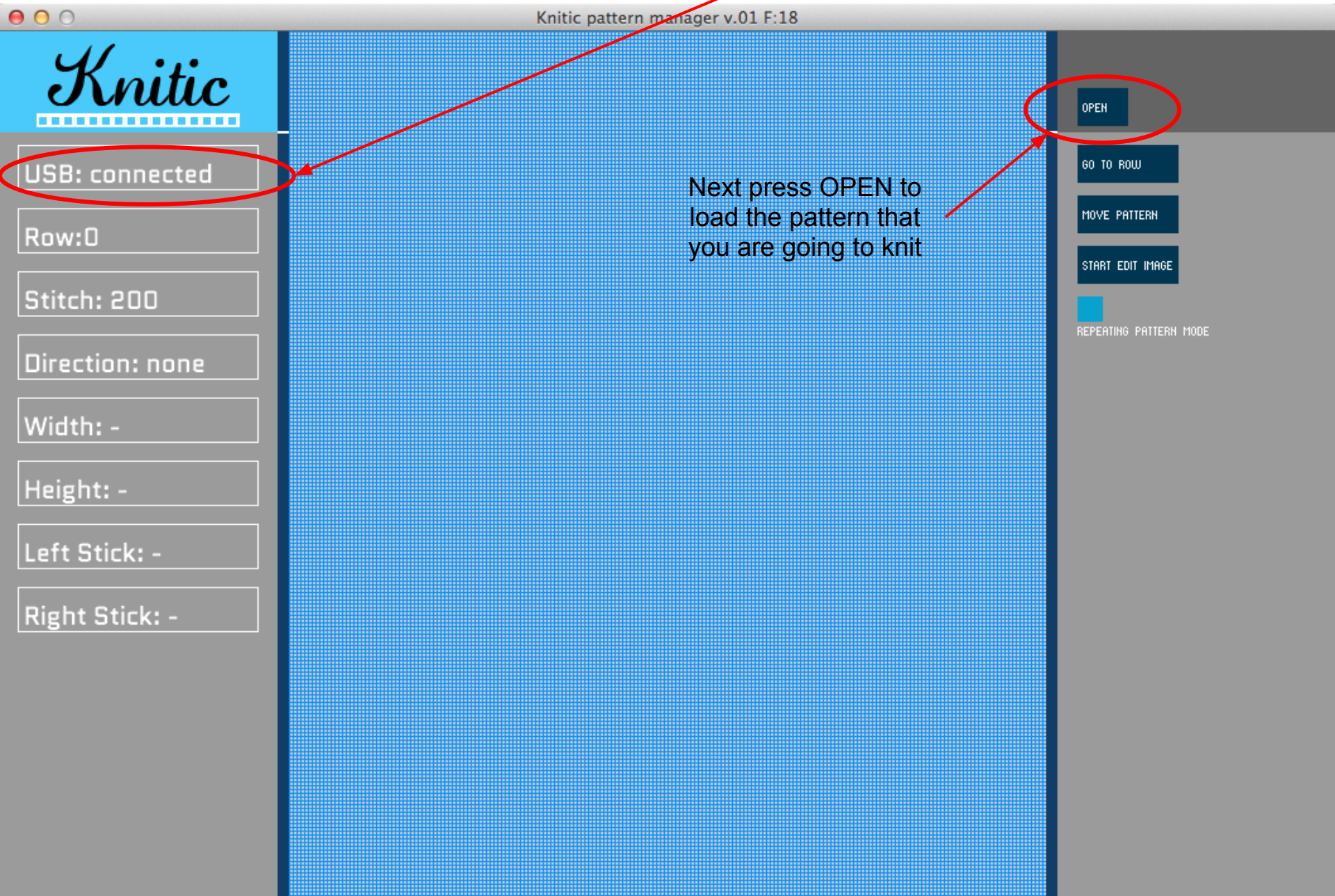
Step 2. Download latest version of Knitic from github: https://github.com/mcanet/knitic

Step 3: Upload to Arduino Due code for Arduino (use programming port)

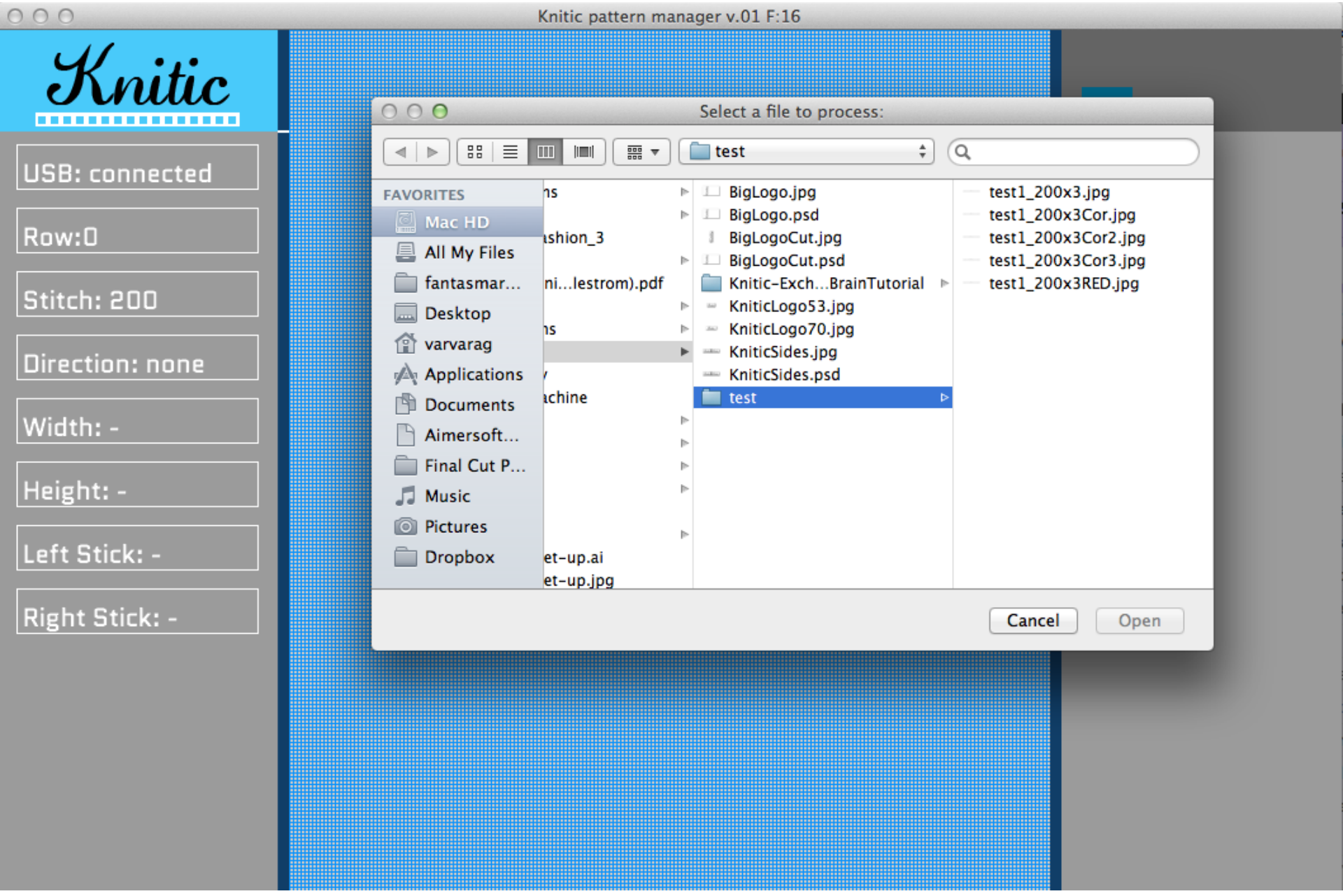
Step 4: Run the Processing program (make sure that any other program doesn't use serial port)

Step 5: switch ON the knitting machine

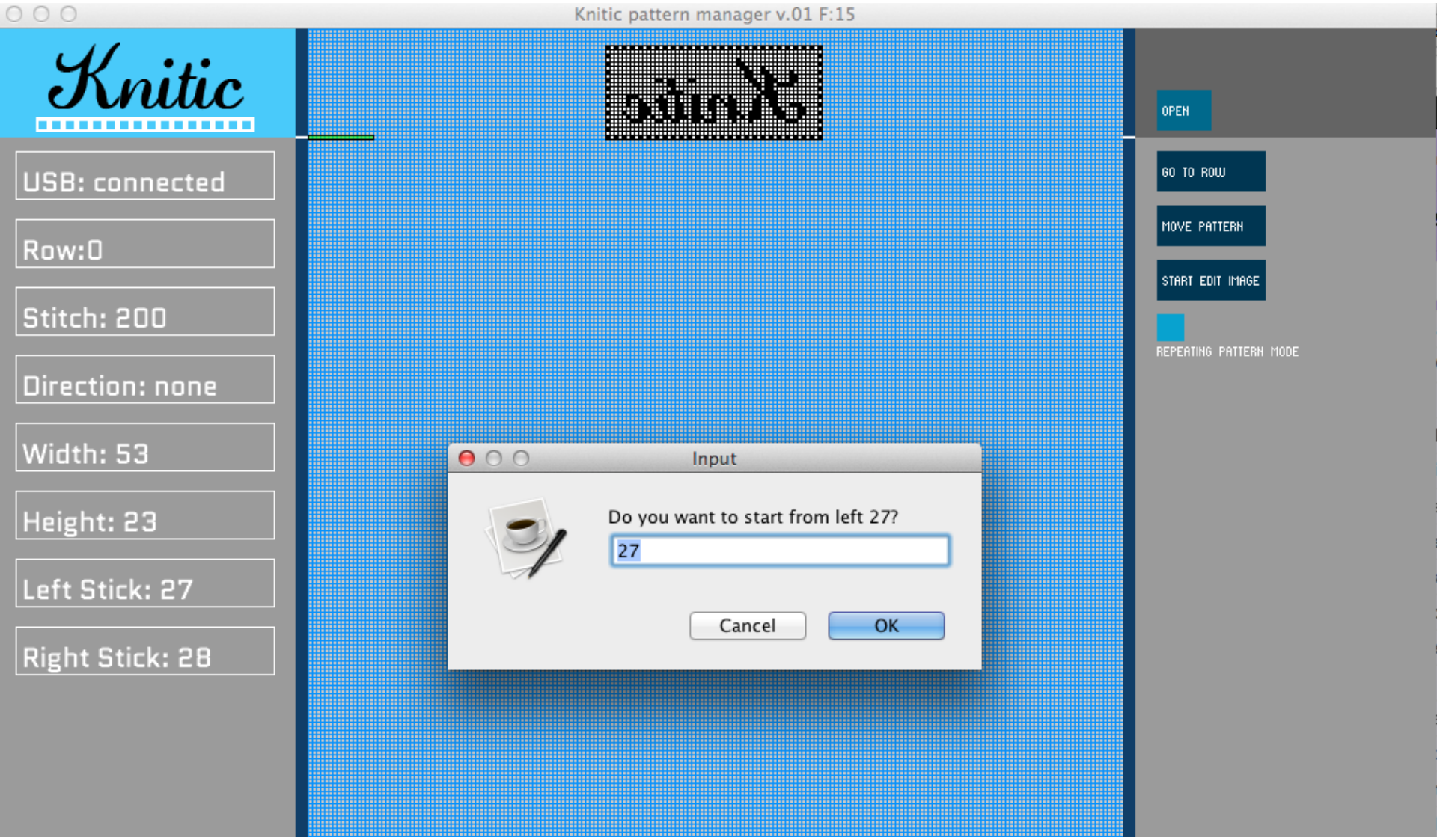
You should see following interface. Make sure that USB status is CONNECTED



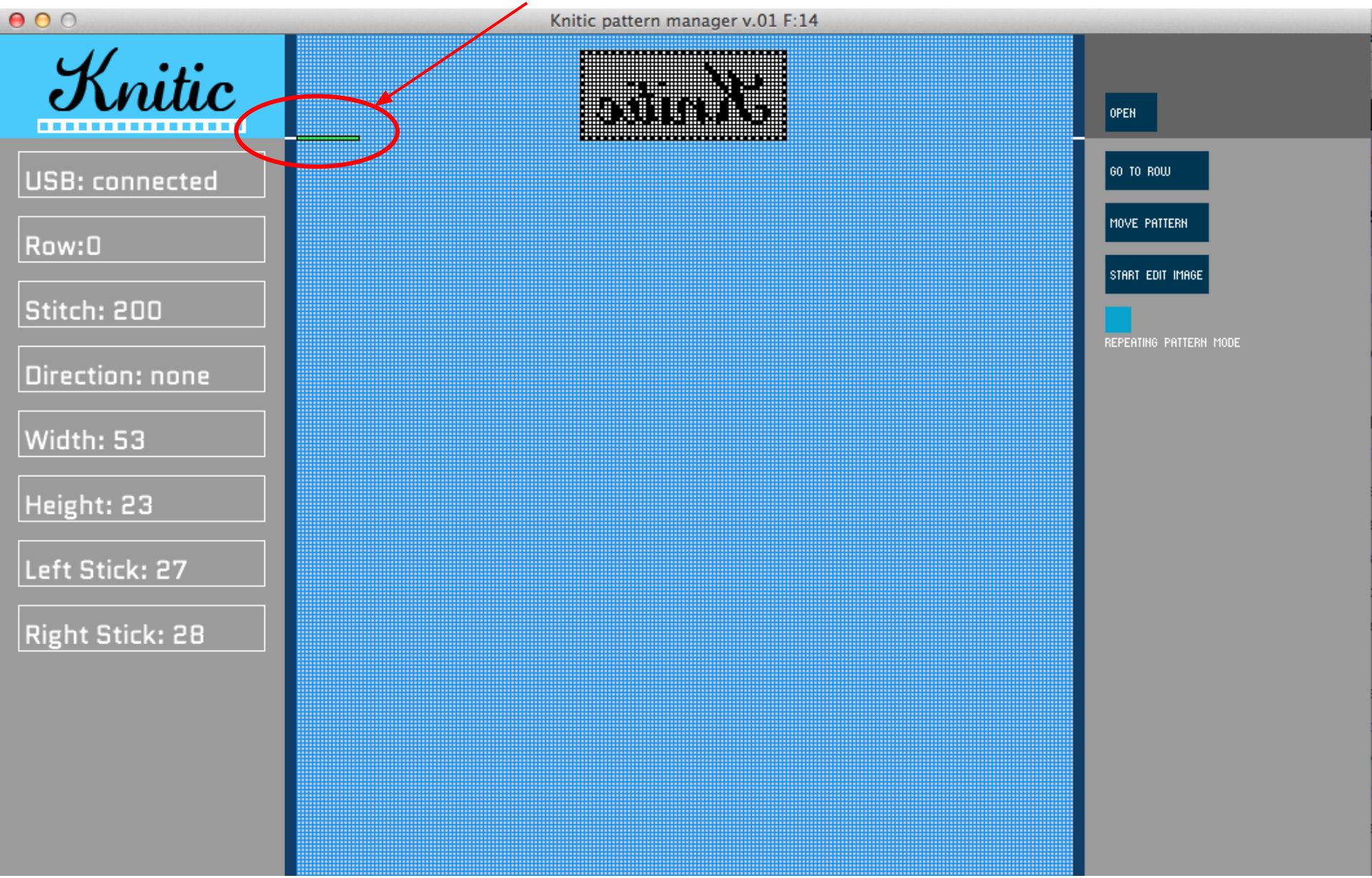
The file window should open asking for bitmap image to upload (black&white JPG/PNG).
Remember max stitch number is 200!



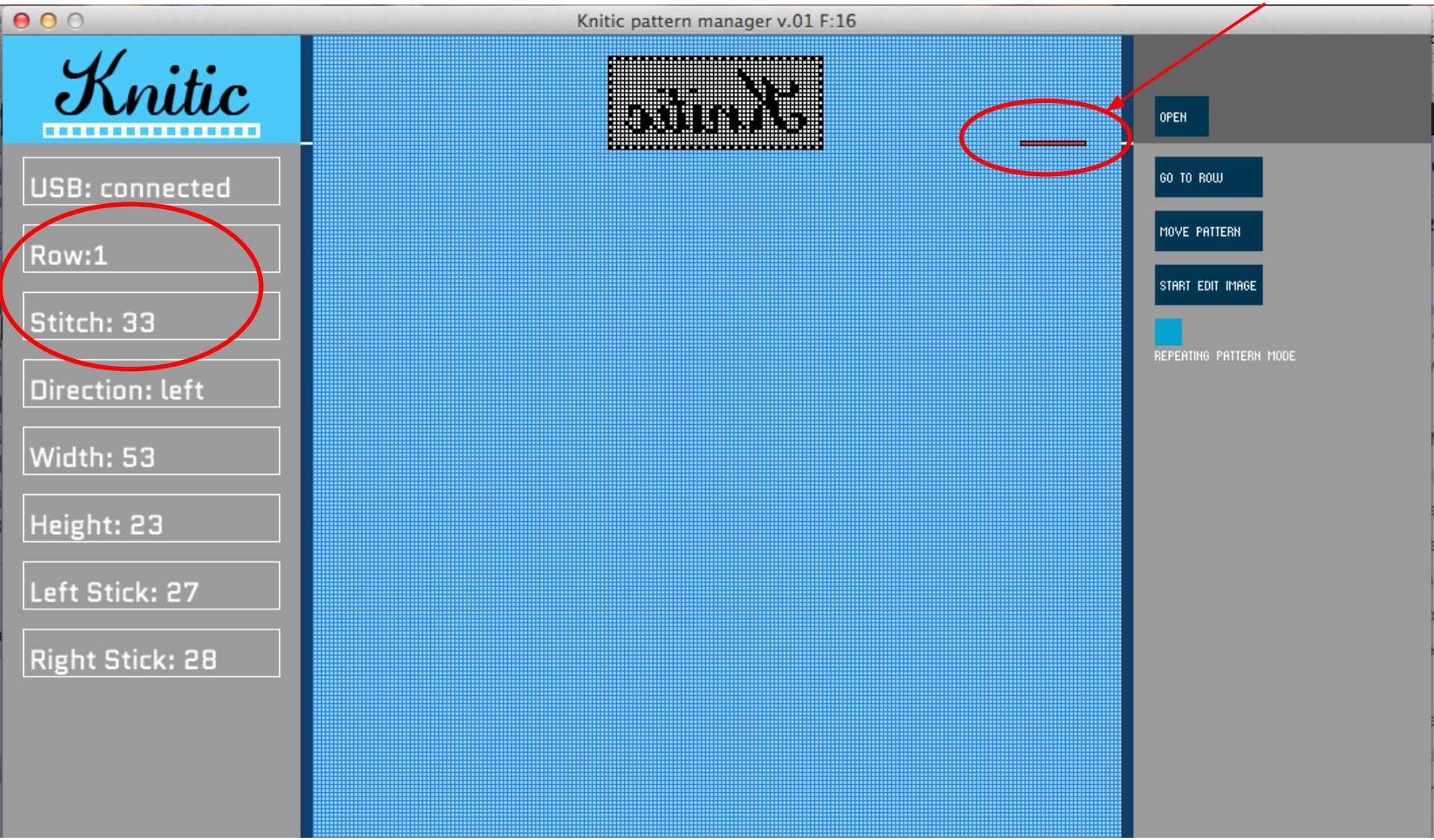
Now you can choose the location for your pattern. By default Knitic puts pattern in the MIDDLE. However if you want to shift it, type in wished position: POSITIVE numbers for LEFT side and NEGATIVE numbers for right side.
PS. if your shifting makes pattern not to fit, you will get an error message



You are ready to knit! Check that your cartage is behind end-of-line sensor on the left or right, and pattern mode is selected (KCI or KCII).
When you pass the end-of-line sensor with the whole length of cartage, you'll see green(from left to right direction) or red (from right to left) bar following your cartage position

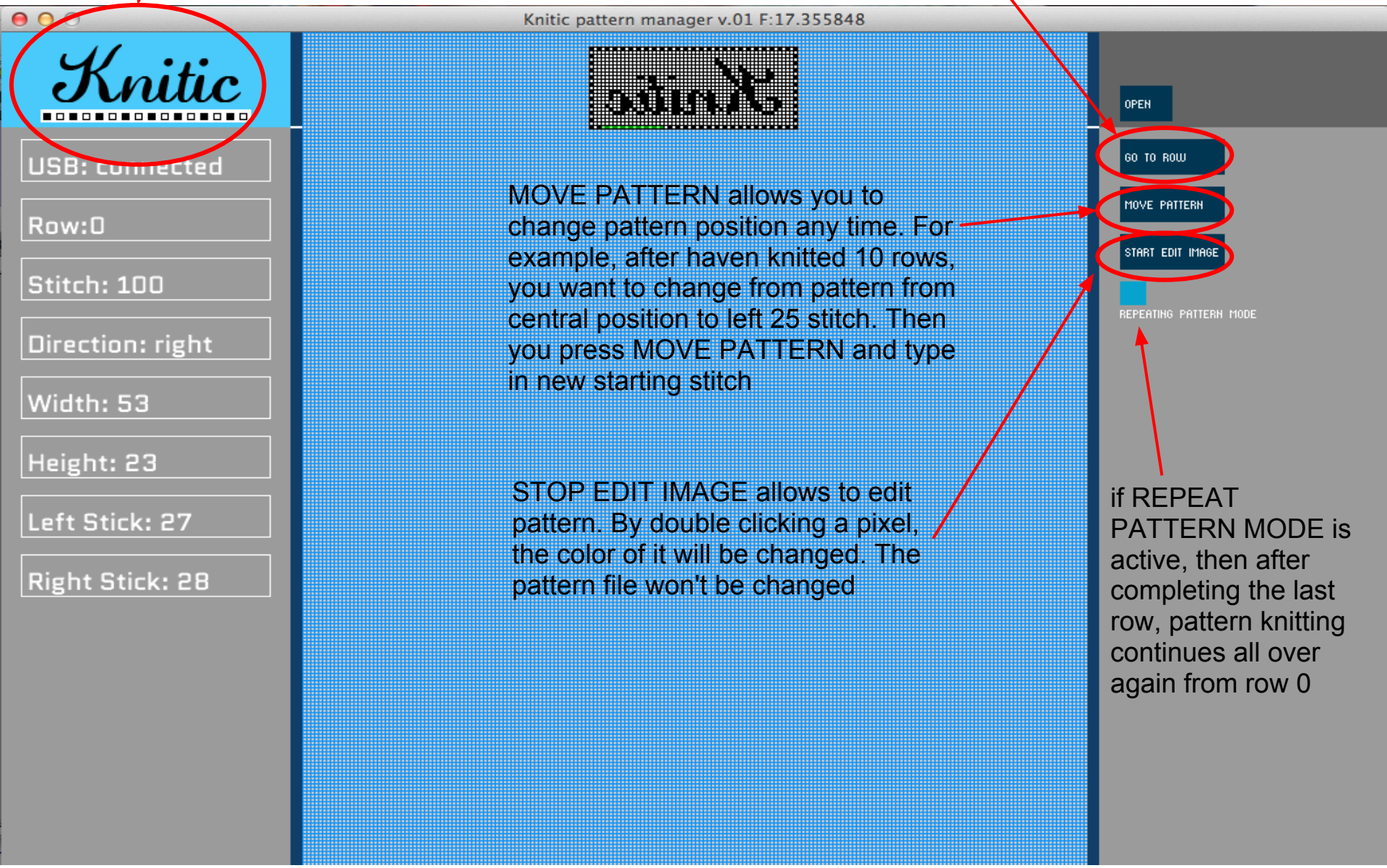


This screen print shows the movement of cartage from right to left.
The position is ROW 1 and STITCH 33 -> bottom row is 0 and stitch counting starts from right to left from 1 to 200



Also here you can see visualization of solenoids' work according to the pattern

GO TO ROW enables you to jump to any row of pattern. Useful in case of a mistake.



MOVE PATTERN allows you to change pattern position any time. For example, after haven knitted 10 rows, you want to change from pattern from central position to left 25 stitch. Then you press MOVE PATTERN and type in new starting stitch

STOP EDIT IMAGE allows to edit pattern. By double clicking a pixel, the color of it will be changed. The pattern file won't be changed

if REPEAT PATTERN MODE is active, then after completing the last row, pattern knitting continues all over again from row 0

If the cartage is idle for more than 60secs, you get this message. Whenever you wish to continue, just press OK. It is for turning off the solenoids and avoiding overheating them.