



HOW TO AUTOMATE A SENTRO KNITTING MACHINE

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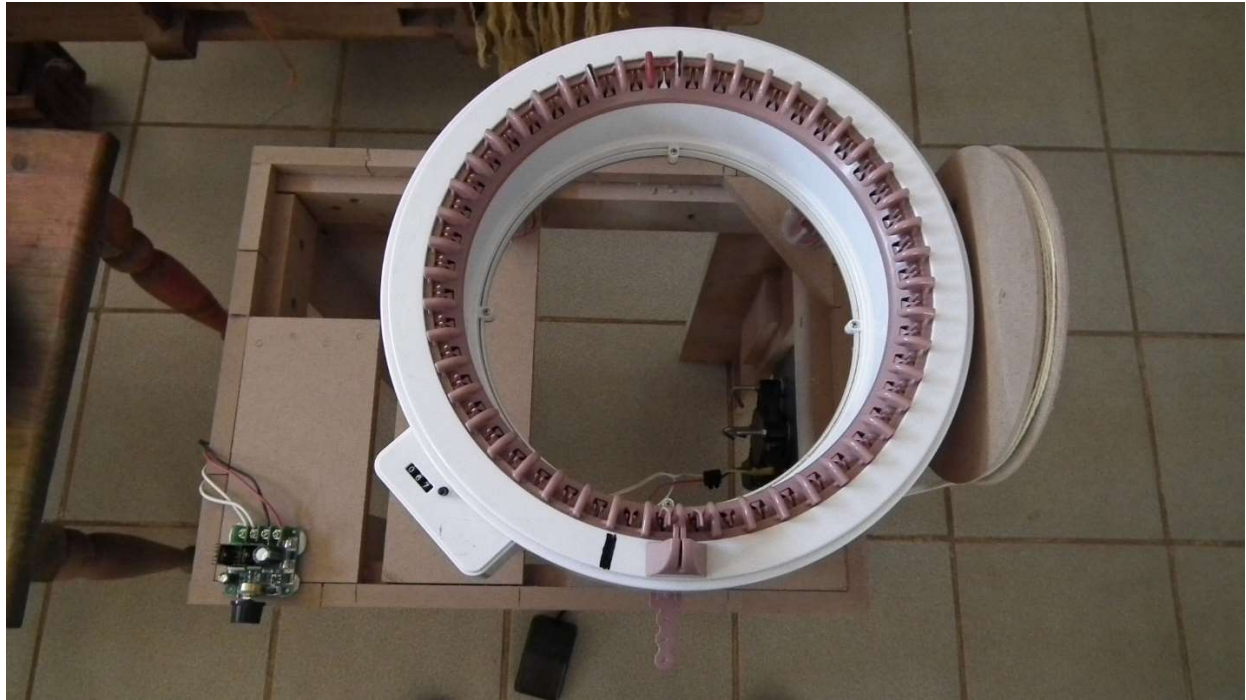
Suggested fabrication sequence

1. Fabricate the top pully first. The pully has a diameter of 210mm. The pully needs to be this size in order to accommodate the hand crank on the Sentro. Note the pully is recessed and the face of the pully is mounted flush with the face of the hand crank.
2. Attach the pully to the Sentro. We used clear contractors' silicone.
3. Find a suitable geared dc motor and attach the 180mm bottom pully to the motor. We used a very old 12-volt car wiper motor. Wiper motors are geared and has shafts that are usually splined making it easy to attach the pully. Wiper motors are cheap and easy to source compared to other geared motors. Wiper motors also has a high duty cycle without overheating.
4. Fabricate the table. Make dimensional changes to suit your requirements.
5. Mount the Sentro on the table taking note of the vertical alignment of the pully.
6. Mount the motor and pully again taking note of the vertical alignment of the pully. We used a 3mm aluminum mounting plate spanned between the table legs. See image attached.
7. Connect the circuitry. See page 4 of drawings.
8. View the automated Sentro video on www.wooligalooli-za.shop if you are interested.

NOTE

We used 16mm MDF for the table and the pullies. We are aware that most fiber crafters will not necessarily have access to the tools required to fabricate the table and pullies. The idea is that you print the drawings and get a woodworker to assist with the fabrication.

We are aware that there are reasonably priced motor drives available on the market for the Sentro. We required a more production orientated and ergonomic solution. Wiper motors are designed to run continuously for long periods of time.



Top view of mounted Sentro



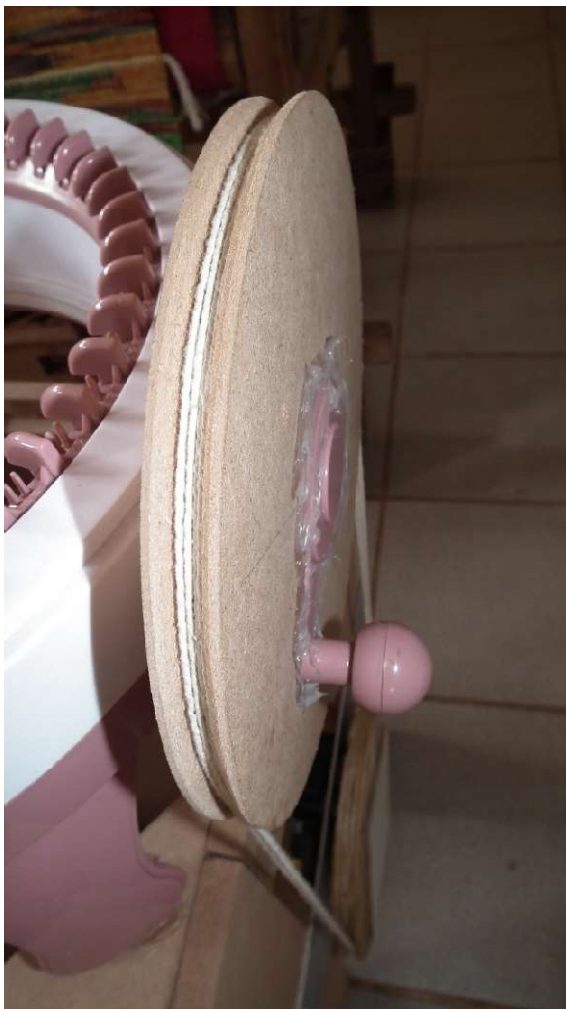
Front view



Side view with Top and Bottom Pullies

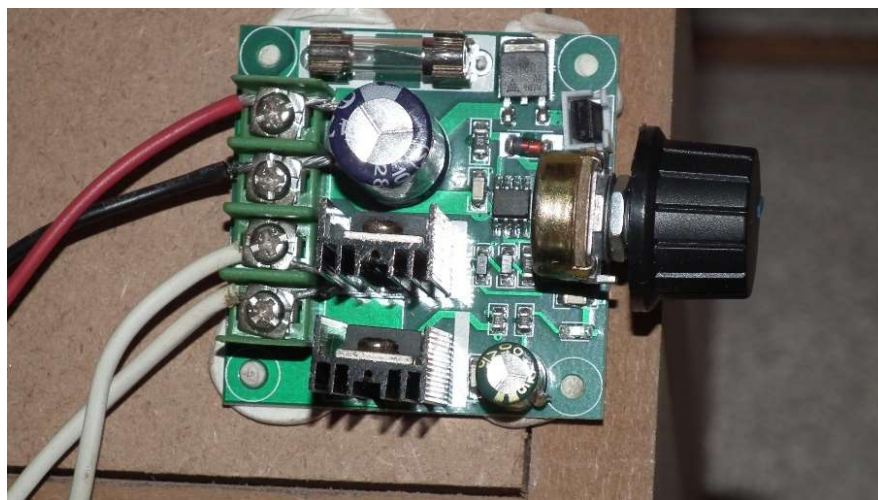


Top pully attached to hand crank

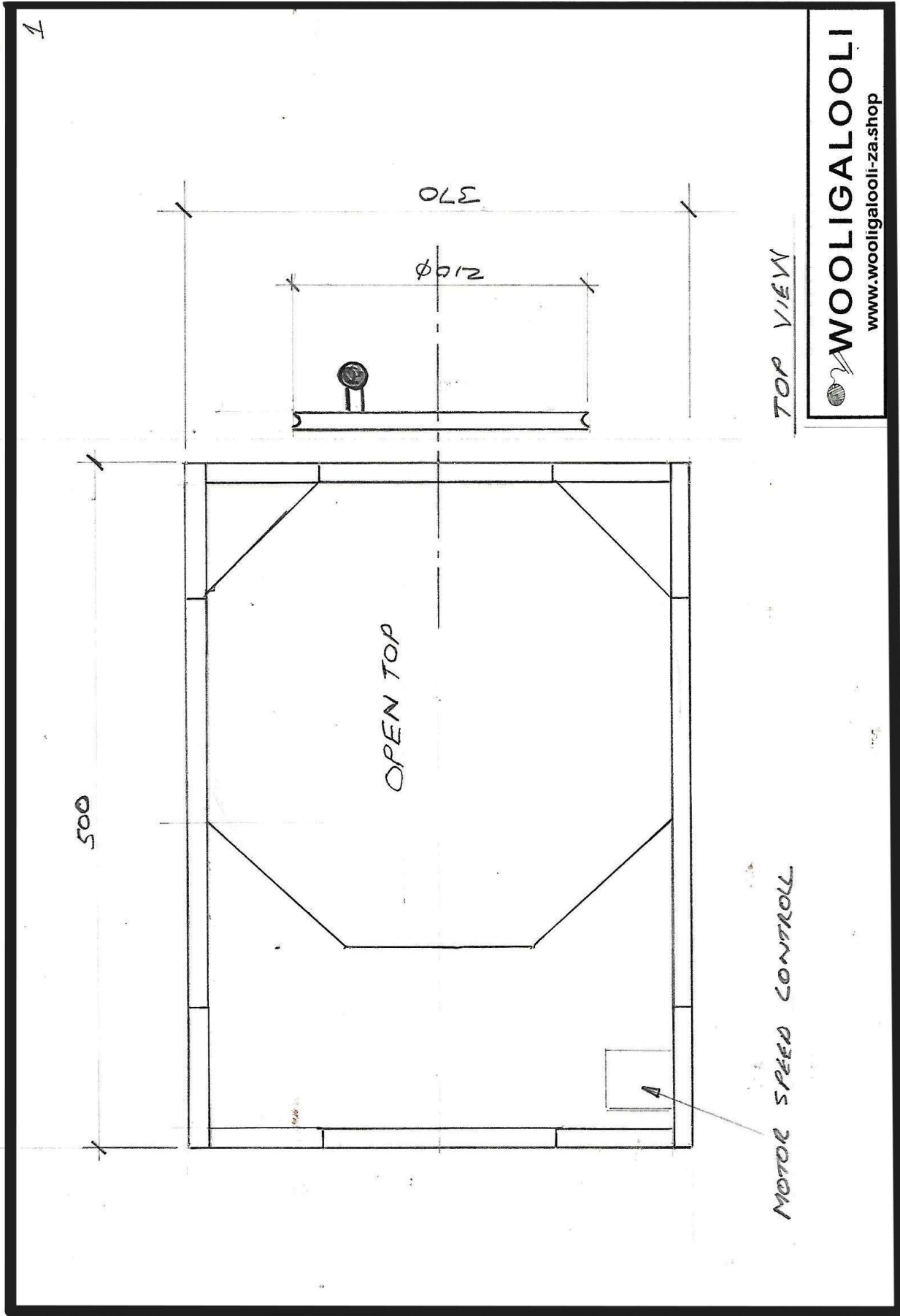


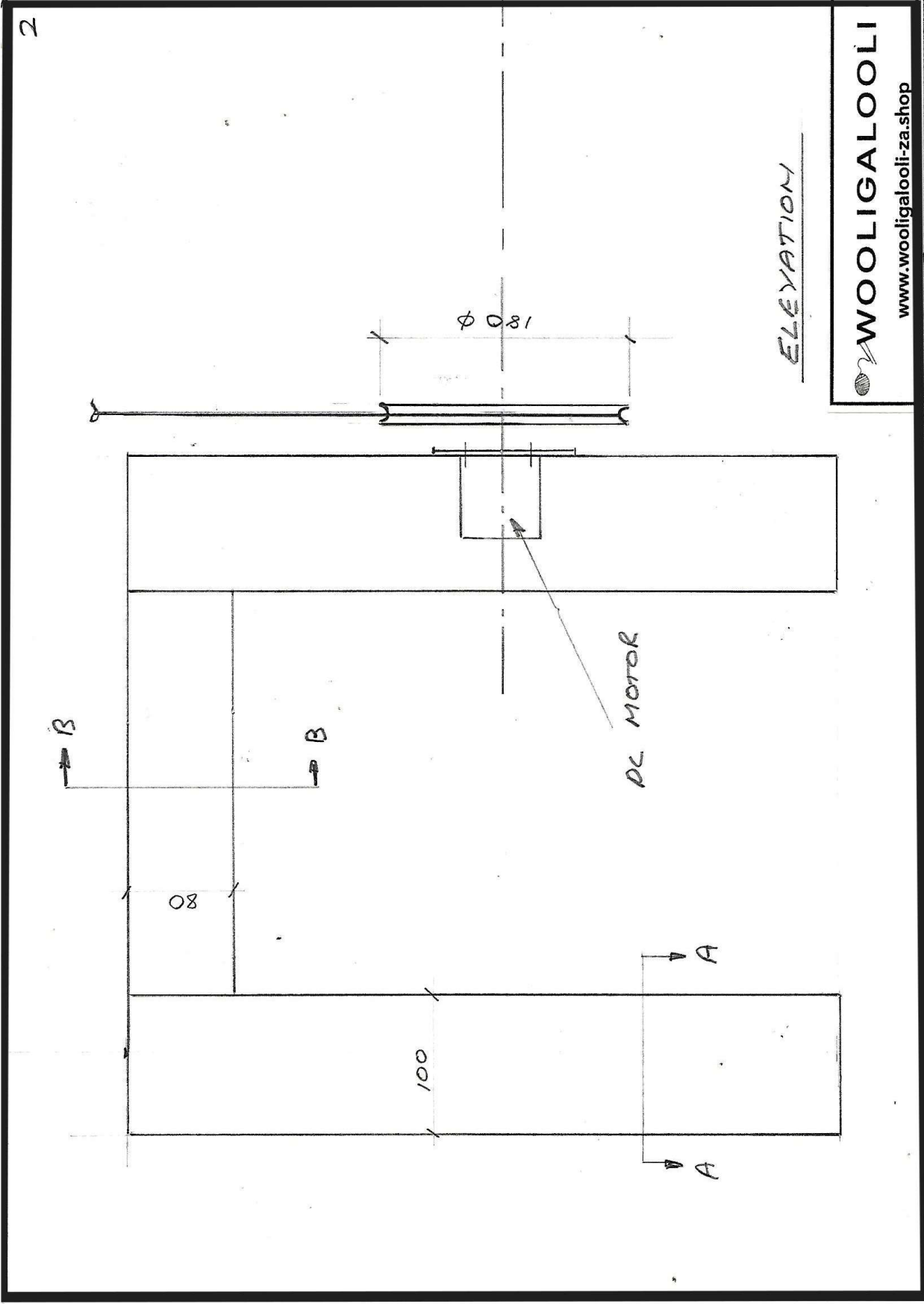


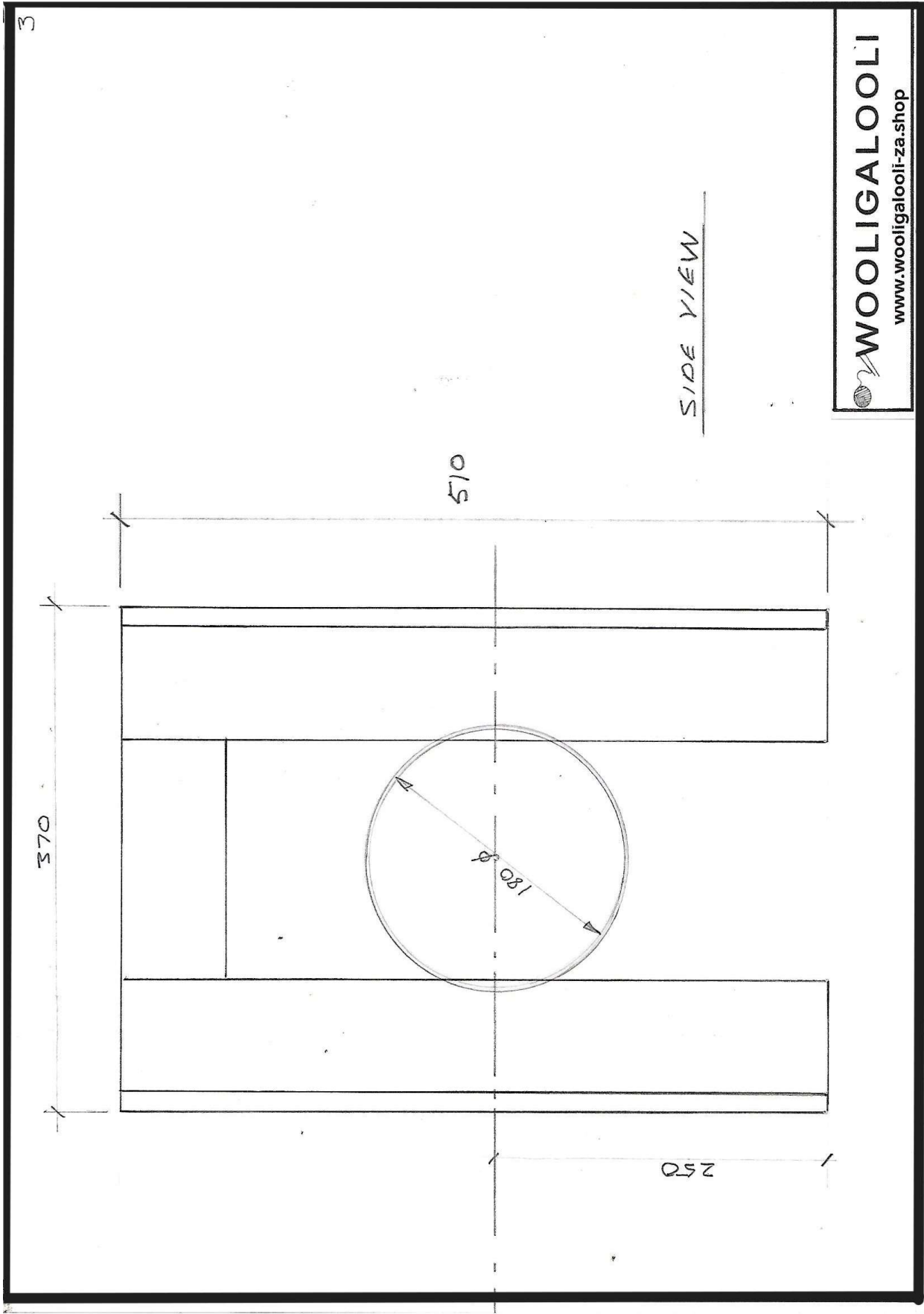
Motor mounted between table legs

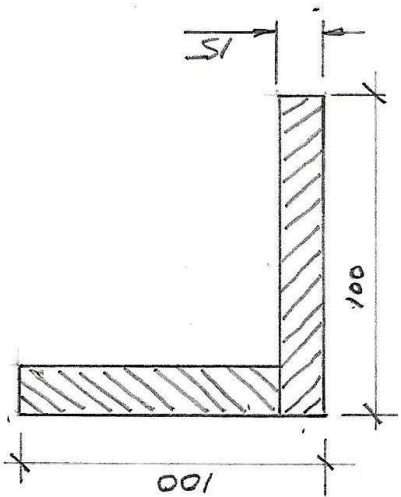


Speed Controller

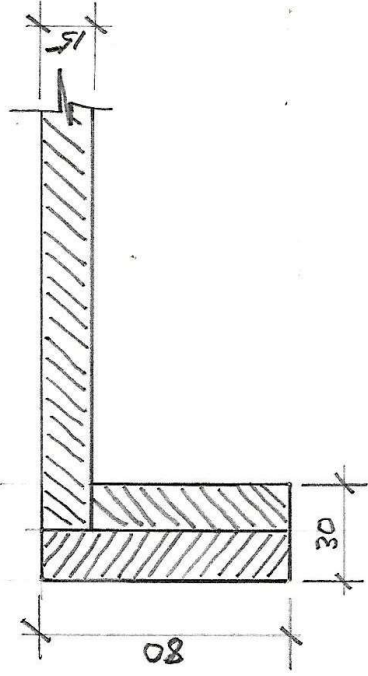




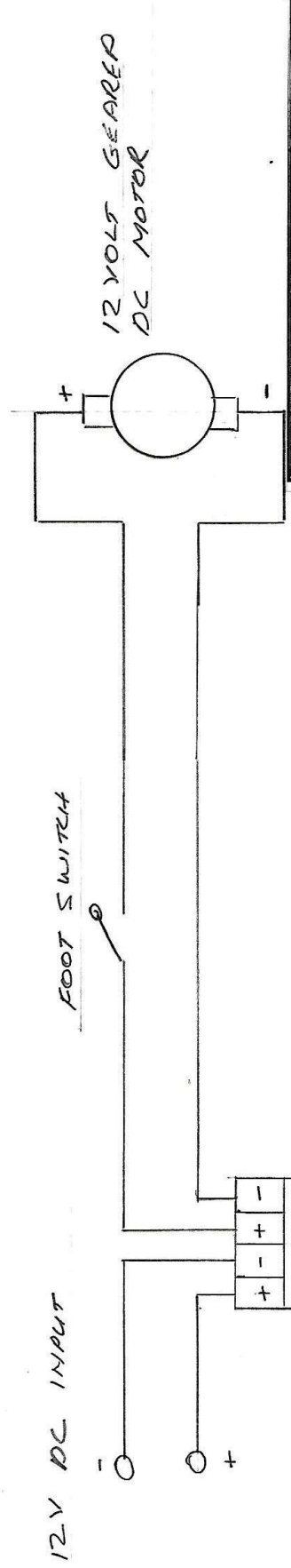




SECTION A-A



SECTION B-B



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