DC 100 Dip Coater (500-050) Instructions

1. Having removed the machine from its packing box please check visually that there has been no transit damage. If any damage is noticed, please inform us immediately and send photos of the damage and the packing box.

2. Check that you have the following equipment.
   - **a)** 100-240v, 43-67Hz single phase, 1.4A input and 24v DC output mains adaptor.
   - **b)** Connecting lead from mains adaptor output socket to the DC input socket on the back of the control box
   - **c)** Polypropylene tank with lid.
   - **d)** Spare nylon cable

3. If you need to contact us regarding the machine please quote our part number and the serial number which can be found on the rating label next to the power input socket at the back of the control box. *(fig 1)*

4. Firstly check that the machine is positioned on a suitable flat surface.

5. Plug the mains adaptor into a suitable mains supply and the output cable into the DC socket at the back of the control box. *(fig 1).*

6. Switch on the mains supply and the display will illuminate and show words as in *(fig 2)* for 2-3 seconds. The display will then go into the set-up mode as shown in *(fig 3)*.

Fig 1

DISPLAY FUNCTION BUTTONS

Fig 2

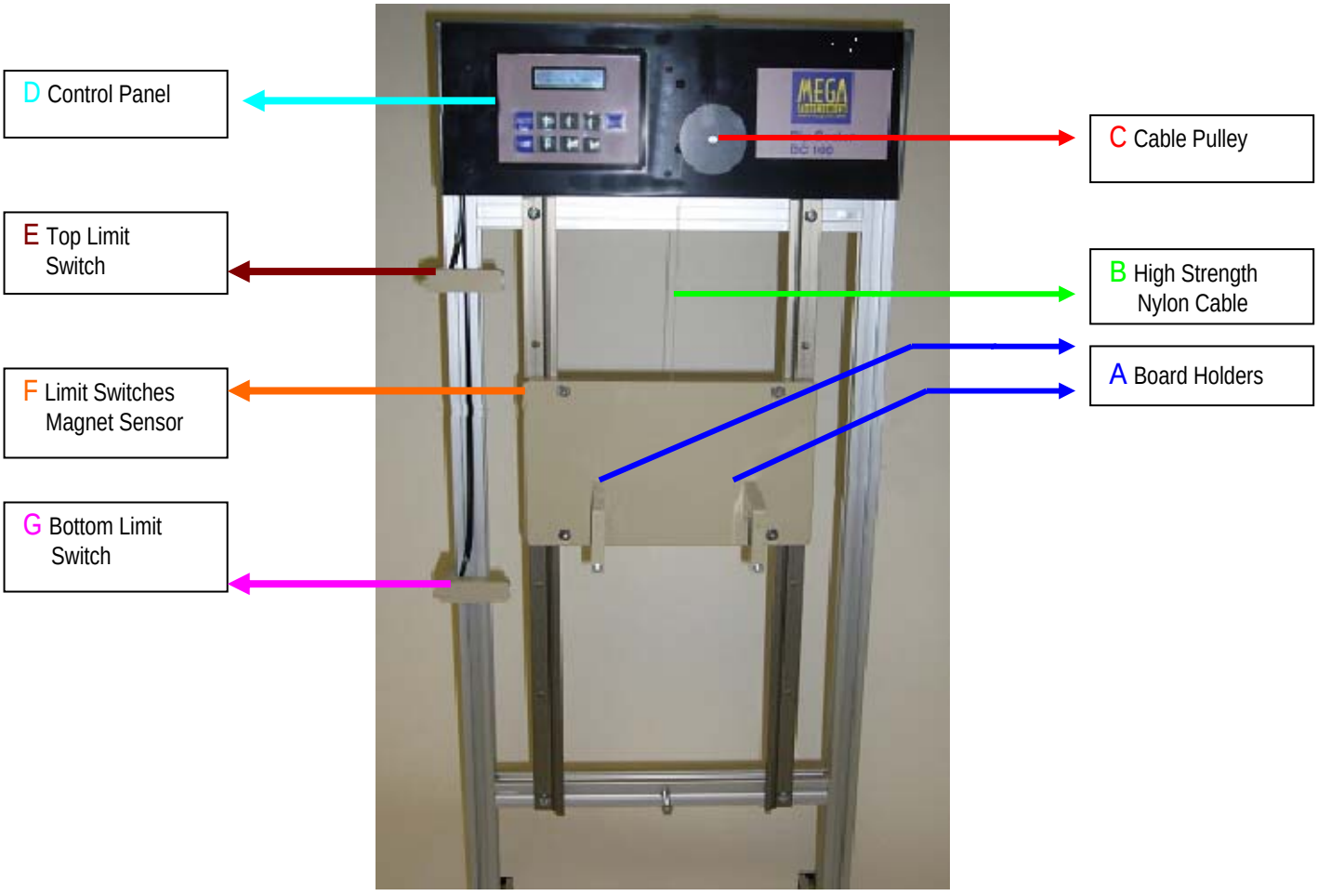
Fig 3

Setting the machine parameters.

1. Using the left side up and down buttons set the down travel speed between 1mm to 200mm per minute.

2. Using the centre up and down buttons set the delay time when the object to be coated has reached the bottom limit switch before it starts going up again (1-999 seconds). This ensures that the liquid is completely still before lifting the object out of the liquid.

3. Using the right side up and down buttons set the up travel speed between 1mm to 200mm per minute.



DIP COATER LAYOUT DIAGRAM

4. Place the dipping tank in a position so that it is lined up with the board holders and move the bottom limit switch so that it is about 150mm above the top of the tank.

5. With the down speed set to 200 mm per minute and the delay time to 15 seconds press the start button and the board will move down and stop when the bottom limit switch has been reached. Immediately press the abort button and the machine will go back into set up mode. You may then move the bottom limit switch down the distance between the bottom of the board holders and the top of the tank. Now press the start button and the carrier will move down to the new position which should mean that the bottoms of the board holders are level with the top of the tank. This process can be repeated as often as you wish to get the position you want.

6. The distance between the top limit switch and the bottom limit switch must be the height of the object plus 10-15mm to ensure that the object is completely clear of the top of the tank. Please note that at any time during the cycle the **ABORT** switch can be pressed to stop it. After this the **START** button can be pressed again to continue the down movement or if the **RESET** button is pressed the board carrier will move upwards even if the bottom limit switch has not been reached.
   If after pressing the **RESET** button you then abort it you can then press start to go down again or reset to keep going up.

WARNING. If the carrier becomes obstructed in any way before it reaches the bottom limit switch the motor will keep turning and the nylon cable will unwind itself and then rewind itself either on the pulley but more probably onto the pulley shaft and move the carrier up to the top of the machine and continue to try and pull the carrier up as the top limit switch will not function. This will mean that eventually the nylon cable will break and the carrier will drop down on top of the tank.

NB. The cables connected to the limit switches can be pulled out or pushed back into the control box without harming them.

Please note the following:-
When you have finished working turn the power off at the mains. This will mean that when you switch the power on again you will have to reset your parameters.
Also always remember to replace and tape the tank lid in order to minimise evaporation of solvents.

Stroke length	Maximum 457mm
Maximum load	5 kilos
Weight	7 kilos (volume for shipping 85 kilos)
Dimensions	W:410mm x D:355mm x H: 1000mm
Insertion Speed	Programmable 2mm to 200mm per minute
Withdrawal Speed	Programmable 2mm to 200mm per minute
Immersion Delay Time	Programmable 1 to 60 seconds
Panel Holder	Adaptable – can hold one or several panels
Power Supply	Input: 100-240v 47-63Hz 0.7A Output: 24v dc 1.25A

MEGA Electronics
MEGA ELECTRONICS LIMITED.,
Mega House Grip Industrial Estate, Linton, Cambridge, England. CB21 4XN
Telephone: +44 (0) 123 893900 Fax: +44 (0) 1223 89 3894
email: sales@megauk.com web: www.meguak.com