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INSTRUCTION MANUAL FOR SPECTRA DIGITIAL CONTROLLER

Catalog – Spectra Digital Speed Controller

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Includes Patented and Patent Pending features. Product may differ slightly from the picture above.

The Spectra Digital Touch Controller is supplied as a part of the Spectra machines. Some machines have a similar controller but without the Touch Screen Digital panel. This instruction manual
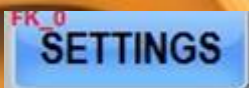
Please read the safety and setting up and connection instructions in the main manual provided with the Melanger.

Operating the Digital Touch Controller:

- Turn on power to the Controller after making the proper connections. Ensure that the earthing is sufficient and proper on your wall outlet.
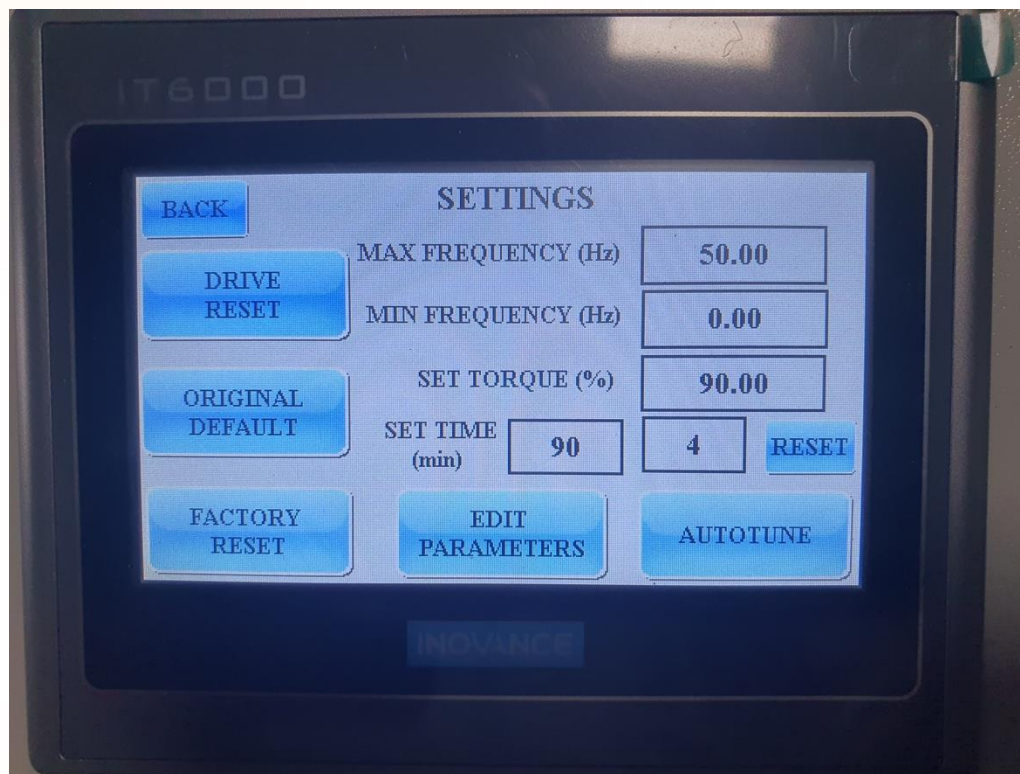- Once the controller is ready, you will see the screen below.

- Press the ON button and then press the UP arrow to increase the speed to your desired speed. The actual speed of the motor will increase to the set speed.
- You can view Parameters, Trends and Settings, and also view the Actual Torque% and the Current in Amps. However, all these are for View only and none of these settings can be altered. You can also View the Run time in minutes and seconds, but it cannot be changed or reset on this screen.
- To Turn off or pause, simply press the OFF button. Pressing ON again will start the machine and the take the speed up to the SET speed.
- For emergencies, you can hit the red EMERGENCY STOP button below the digital panel and it will halt the machine.
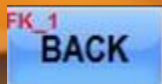
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In the Settings screen below, you can SET the TIME. You do not have to change any of the other settings like frequency or torque and they can remain at factory set levels. The Drive Reset, Original Default, Factory Reset and Edit Parameters are all password locked and you will need to access them only in case of any issues and when supported by our technical team, if ever needed, in the future.

You do not have to set the Max Speed, Min Speed and Torque. Leave them at the original factory settings.
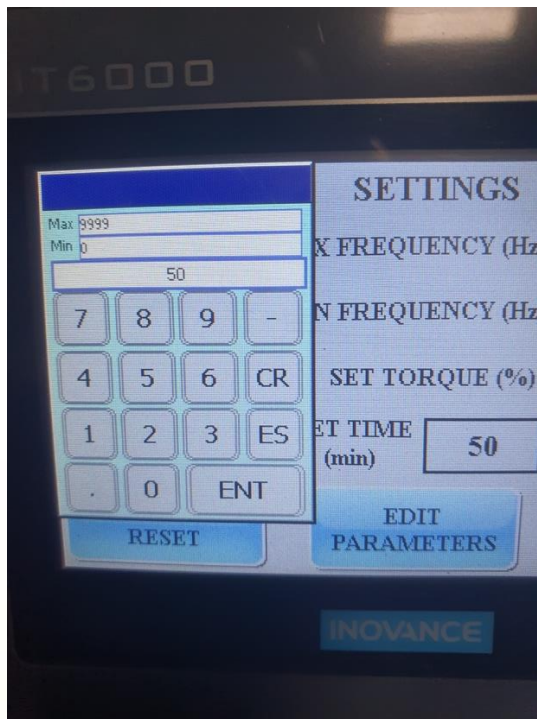

- **PRESS "BACK" IN THE DISPLAY, SCREEN JUMP TO THE HOME SCREEN**
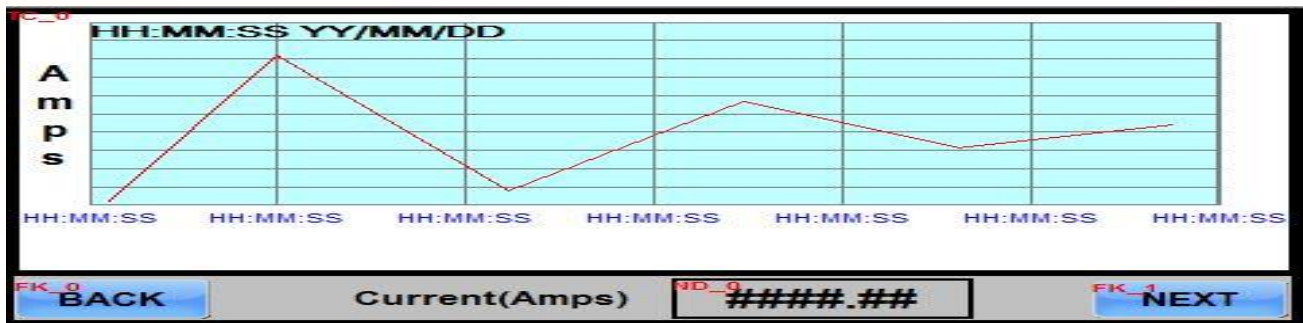
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SETTING TIME:

To SET the Time, press the SET TIME box. It will pop up another window. In that window, you can clear the values by pressing CLR. You can add your desired run time in MINUTES. Then you press ENT to enter the values

To reset the already run time to ZERO, press and hold the RESET butotn for 5 seconds and release.

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PRESS "TREND "IN THE DISPLAY

- **IN THE GRAP SHOWS THAT THE CURRENT (AMPS) X TIME**
- **EXAMPLE: - 230V AT THE TIME OF 10:30**
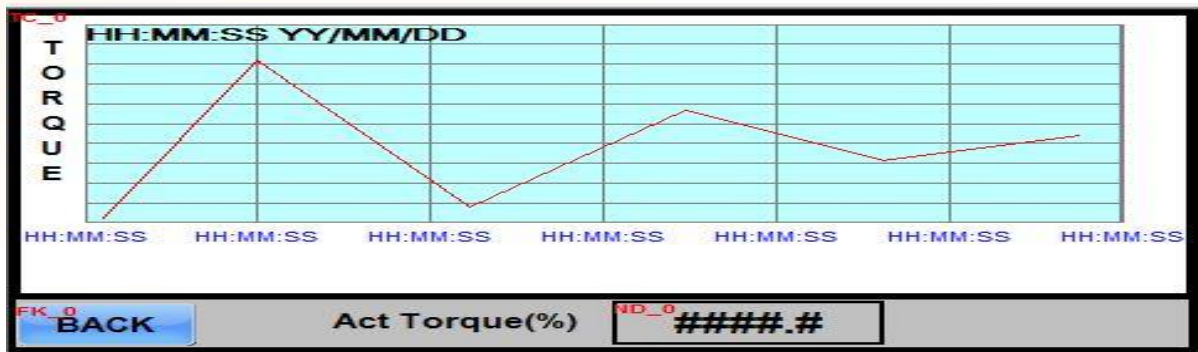

- **PRESS "BACK" IN THE DISPLAY, JUMP INTO THE SETTING PARAMETERS SCREEN.**

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PRESS "NEXT "IN THE DISPLAY

- **IN THE GRAP SHOWS THAT THE TORQUE X TIME**
- **EXAMPLE: - 4.5 TORQUE AT THE TIME OF 11:40**

EMERGENCY STOP: -

- **EMERGENCY STOP DISPLAYED DURING THE TIME OF E-STOP PRESSED IN THE PANEL BOX.**
- **RELAESE THE E-STOP AND PRESS "BACK" TO HOME SCREEN.**

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ERROR MESSAGE: MOTOR OVER LOADED

- MOTOR OVER LOADED DISPLAYED DURING THE TIME OF MOTOR OVER CURRENT.
- CHECK THE INCOMING SUPPLY FROM THE MOTOR SIDE AND PRESS "BACK" JUMP INTO HOME SCREEN.
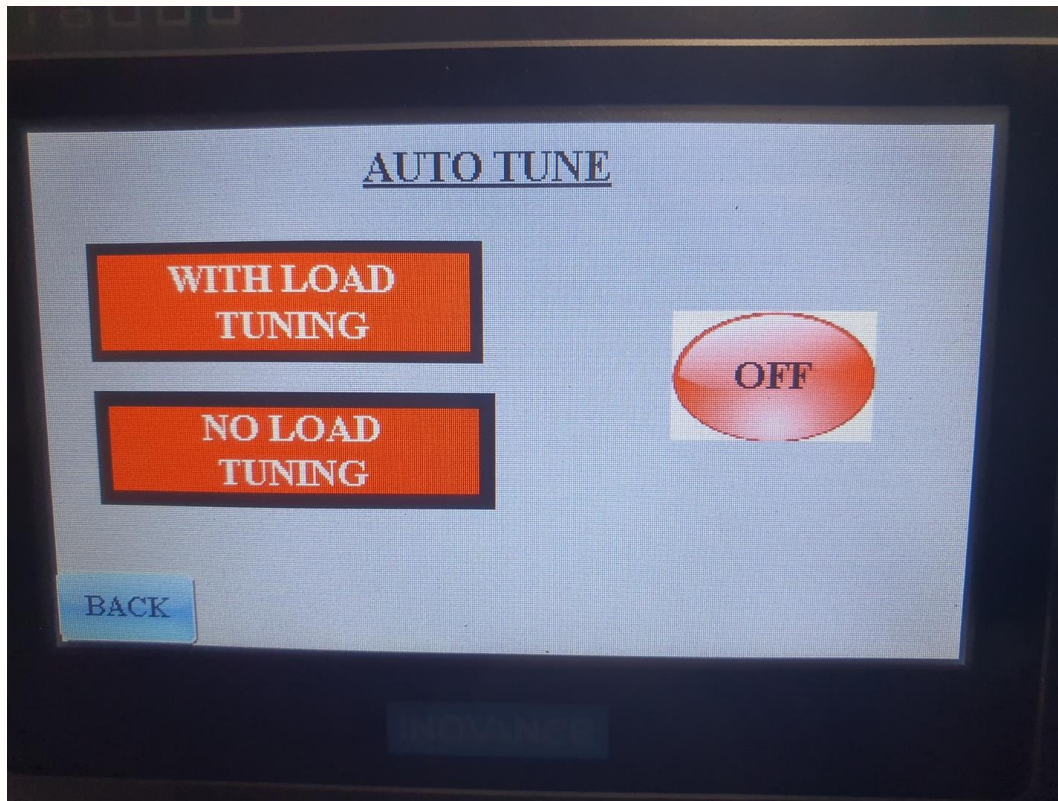
ERROR MESSAGE: DRIVE TRIP

- DRIVE TRIP IS DISPLAYED DURING THE TIME MOTOR GET TRIP

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AUTO TUNE

This is often not needed, and can be occasional done under instructions from the factory. The Auto Tune syncs the Controller to the Motor running characteristics.

If the Controller is connected to the machine and you are doing the tuning, then it is called WITH LOAD TUNING.   If the Controller is not connected to the machine, then it is called NO LOAD TUNING. You can do either one.

Once you pick either button and press on any one of them, the TUNING will start and complete after some time. Once TUNING is done, you will have to completely power off the controller by switching off the wall power or pulling out the plug on the wall and cut off power supply to the Controller. Then you can repower on the supply after a few minutes.