



## **Eurotherm 631 or 637 Programming & Testing:**

1. Install the EasyRider software onto your PC/laptop.
2. Connect one end of the programming lead to Comms Port 1 on your PC/laptop.
3. The Software should automatically select the PC/laptop's Comms Port 1.
4. Connect the other end to the 637+ drive: Comms Port 1 (RJ45 connector).

OR;

5. Connect the other end to the 631 drive: X15 (RJ45 connector).
6. Open the EasyRider software.
7. Switch the machine on with the emergency stops pressed and the drive will display "-." (a dash & a dot, which means system ready but not activated).
8. If it displays other codes see error codes at the end for description.
9. To check the communications to the drive go to the top menu COMMAND and then click on PC-Login. It will flash up a green tick saying "the PC is successful executed".
10. If not then retry the process again.
11. You can check the comms port settings from the top menu OPTIONS then Select communication port. This should be set to COM 1.



## **DIAGNOSTICS:**

To check drive diagnostics from the top menu DIAGNOSTICS then click diagnostics.

The three important areas are DRIVE, INPUTS-OUTPUTS and BIAS.

You may want to run the machine.

### **Drive:**

This will show you Motor and Drive status plus performance % of the motor, drive and brake resistor.

### **Inputs and Outputs:**

This will show you the drive inputs and output status.

### **BIAS:**

This shows the BIAS program variables and lines of code running.

## **DRIVE CONFIGURATION:**

To check the drive and motor settings go to the top menu COMMISSIONING and then click on GENERAL.

The password is level2.

The important areas are MOTOR and COUNTER.

### **Motor:**

Check that the motor type is correct and the I2t monitoring is set to 99sec or greater. If it is set below 10sec it will build up a performance % on the motor and eventually trip out on error 3 or 4.

Also check that the Brake Resistor is not active.

None of our machines are fitted with brake resistors and if active it will cause the drive to trip on error 3 or 4.

### **Counter:**

This shows encoder count and direction settings. If the encoder pulses are counting negative you will need to change the count direction.



## **DOWNLOADING THE DRIVE SETTINGS:**

The drive setting program is a .WDD file.

Open the file in EasyRider and it will display it in a text format.  
You can scroll through the settings to check motor, gains and field bus settings.

To download to the drive go to FILE then 'Drive Parameters' then 'Transmit Parameters'.

Click YES to all boxes until the drive is active.

You can check the settings but looking in the GENERAL.

## **DOWNLOADING THE BIAS PROGRAMME:**

The bias program is a .WBD file.

Open the file in EasyRider and it will display each line of code with comments in green.

You can scroll through the bias program.

To download to the drive go to FILE then 'Bias program then 'Transmit bias program'.

Click START then YES to all boxes until the drive is active again.  
(Password is level2)

Once the drive is active and running, open the Diagnostics and monitor the drive and motor performances and bias fields and variable settings.



## GENERAL ERROR CODES:

- . = Drive ready for operation
- 1 = under voltage in DC bus (no mains)
- 2 = Resolver fault. Check connections.
- 3&4 = I2t overload
- 5 = Over temperature
- 8 = Warning overload of I2t

See the full product manual for all error codes and explanations.

For further information please contact a Gillard Engineer (email: [tech@gillardcutting.com](mailto:tech@gillardcutting.com)) with your machine serial number (XXXX).