

# How to save and reload the configuration

If one motor needs to be replaced with a new one while maintaining the same parameters (such as motion cycle characteristics and control type), follow these steps:

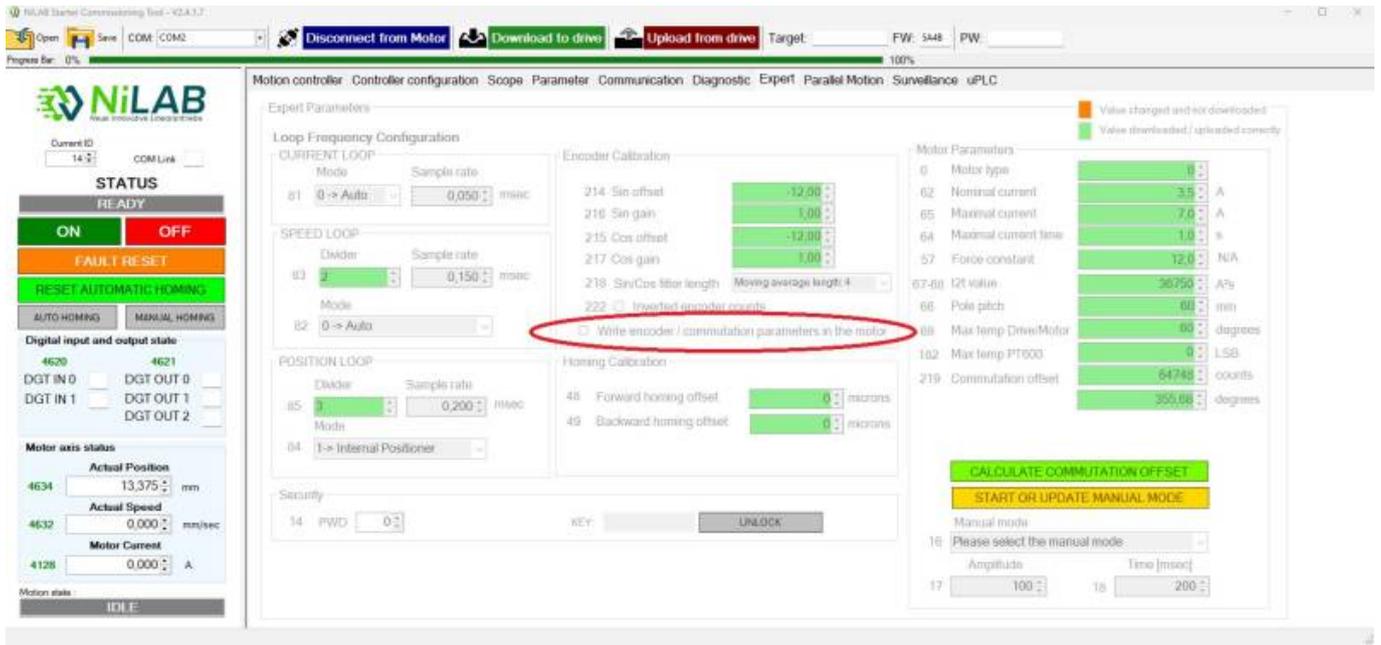
**1. Disconnect the motor from the 24VDC and reconnect the motor waiting 5 seconds (you must see the leds blinking on the motor and then only the green led pulsing or blinking indicating the motor is ready to be used)**

**2. Launch a new session of the NiLAB Starter software. Select the right Current ID of the connected motor and the right COM port for communication using USB to RS485 adapter cable. In the example below the ID of the motor is 14, Please use the right ID of the motor. the default value to be used is the value = 1 . Please note that if you need to know the available motor with the relative ID number use the Communication window and the press the button Scan Modbus Nodes to see the list. Press the button connect to Motor to connect.**

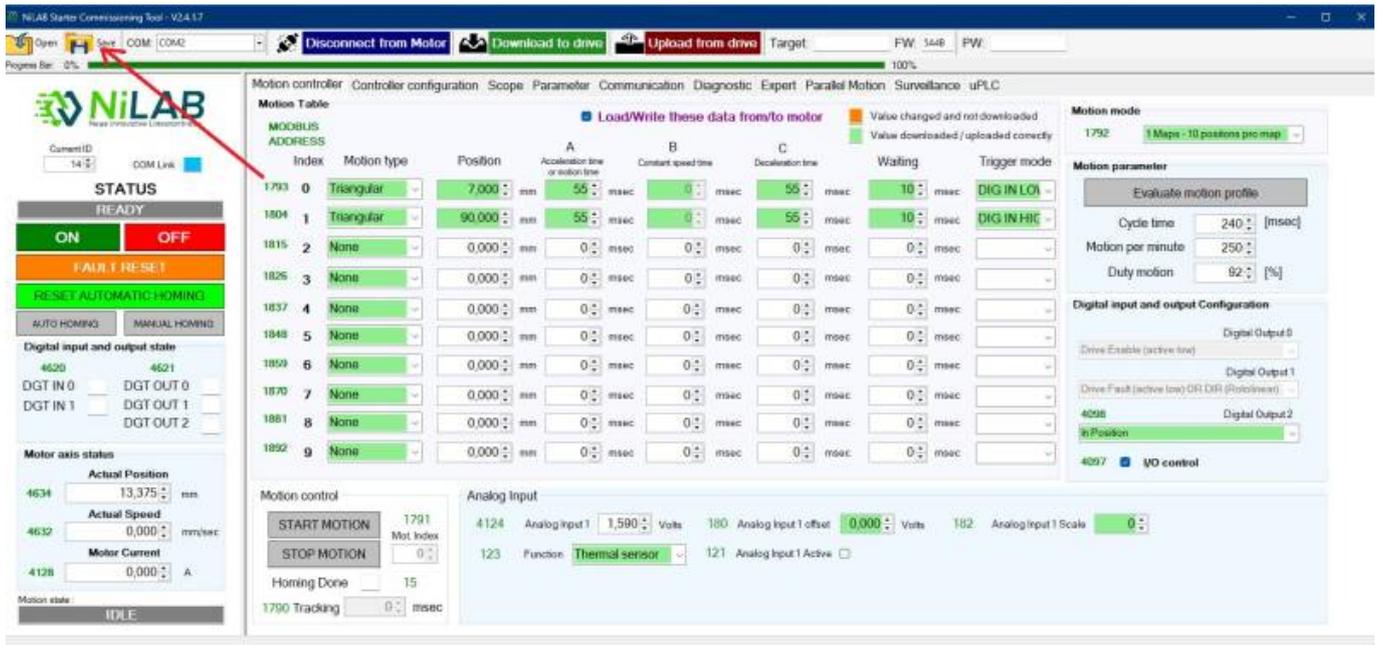
The screenshot shows the NiLAB Starter Commissioning Tool interface. The 'Connect to Motor' button is highlighted with a red circle and an arrow. The 'Current ID' field is set to 14. The 'Motion Table' shows a list of motor parameters for addresses 1793 to 1892. The 'Motion mode' is set to 1792. The 'Motion parameter' section shows 'Evaluate motion profile' and 'Cycle time' set to 240 [msec]. The 'Digital input and output Configuration' section shows 'Drive Enable (active low)' and 'Digital Output 0'.

MODBUS ADDRESS	Index	Motion type	Position	Acceleration time or motor time	A	B	C	Deceleration time	Waiting	Trigger mode	
1793	0	Triangular	7,000	mm	55	msec	0	msec	55	msec	DIG IN LOA
1804	1	Triangular	90,000	mm	55	msec	0	msec	55	msec	DIG IN HIC
1815	2	None	0,000	mm	0	msec	0	msec	0	msec	
1826	3	None	0,000	mm	0	msec	0	msec	0	msec	
1837	4	None	0,000	mm	0	msec	0	msec	0	msec	
1848	5	None	0,000	mm	0	msec	0	msec	0	msec	
1859	6	None	0,000	mm	0	msec	0	msec	0	msec	
1870	7	None	0,000	mm	0	msec	0	msec	0	msec	
1881	8	None	0,000	mm	0	msec	0	msec	0	msec	
1892	9	None	0,000	mm	0	msec	0	msec	0	msec	

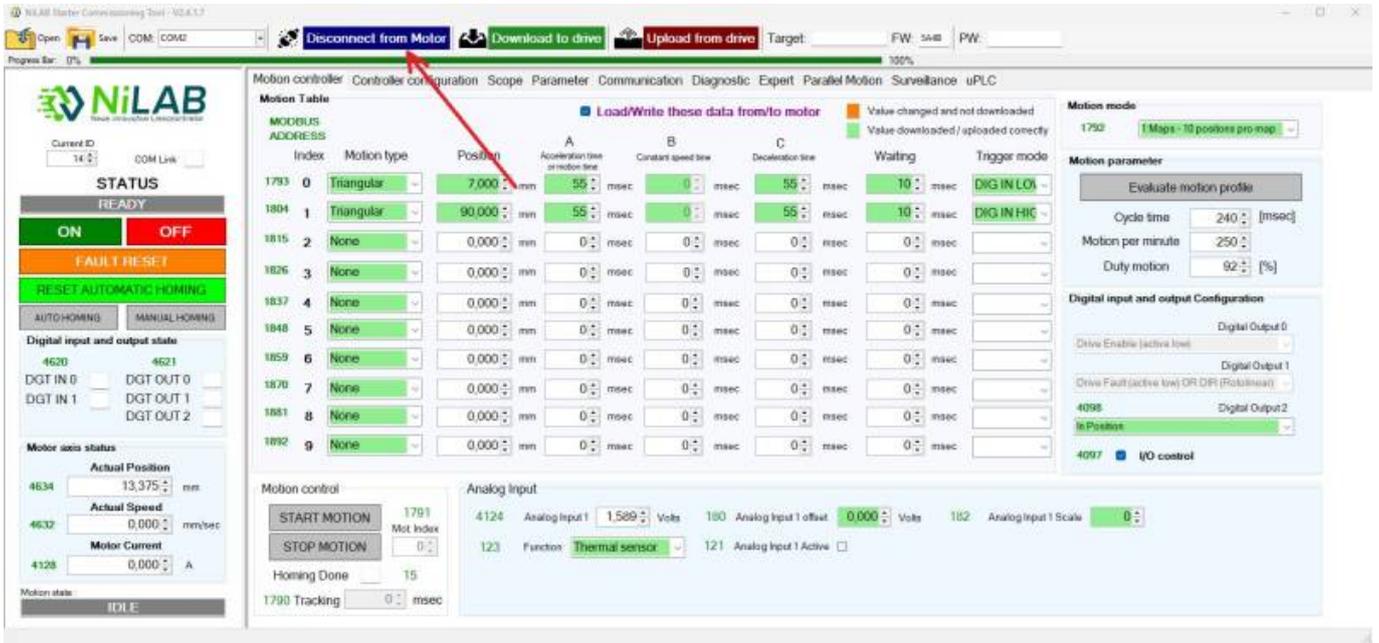
**3. Please verify that the expert window is disabled and the write encoder / commutation parameters in the motor option is unchecked.**



#### 4. Connect to the motor to be replaced and the save the current configuration:

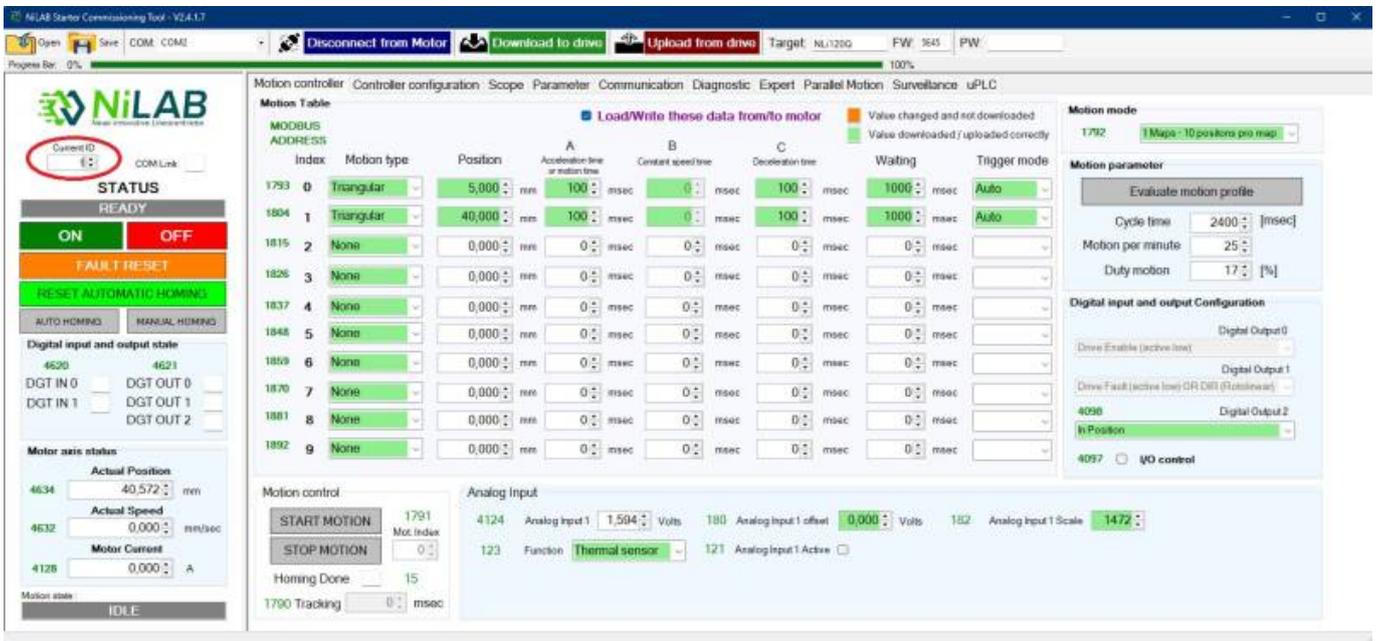


#### 5. Disconnect the motor from NiLAB Starter pressing the button Disconnect the Motor

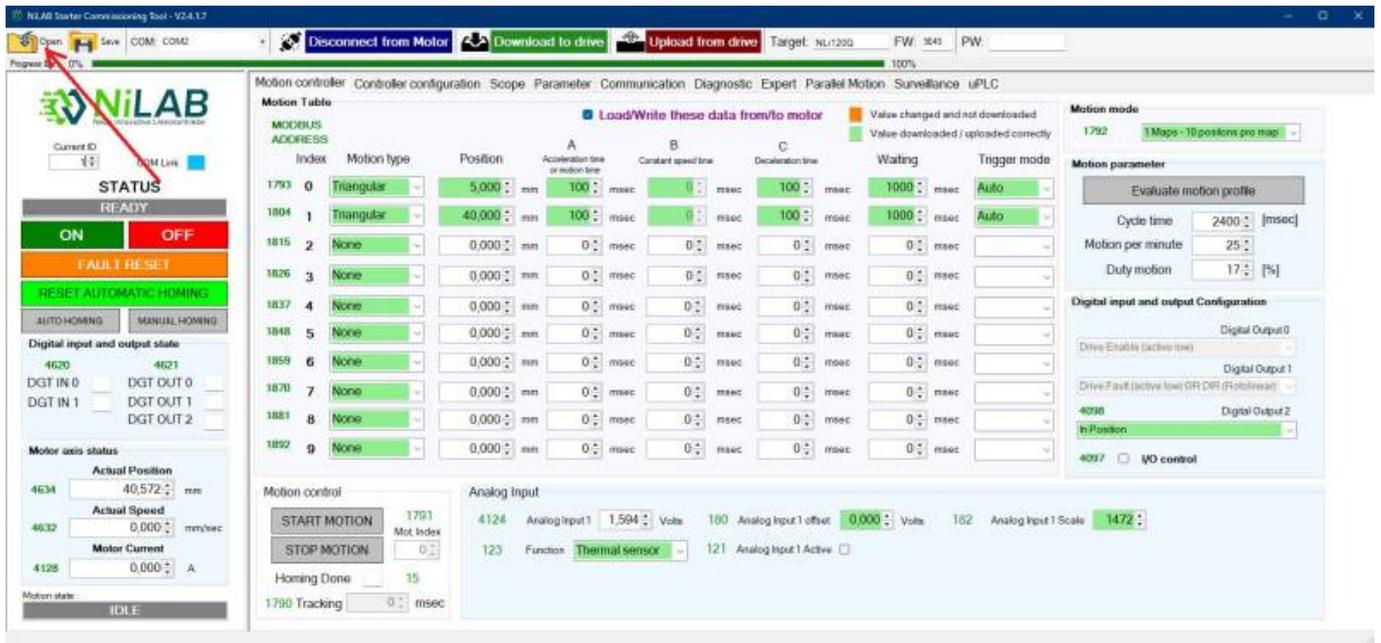


6. Now replace the selected motor with a new one and waiting the booting cycle of 5 seconds from the powerup.

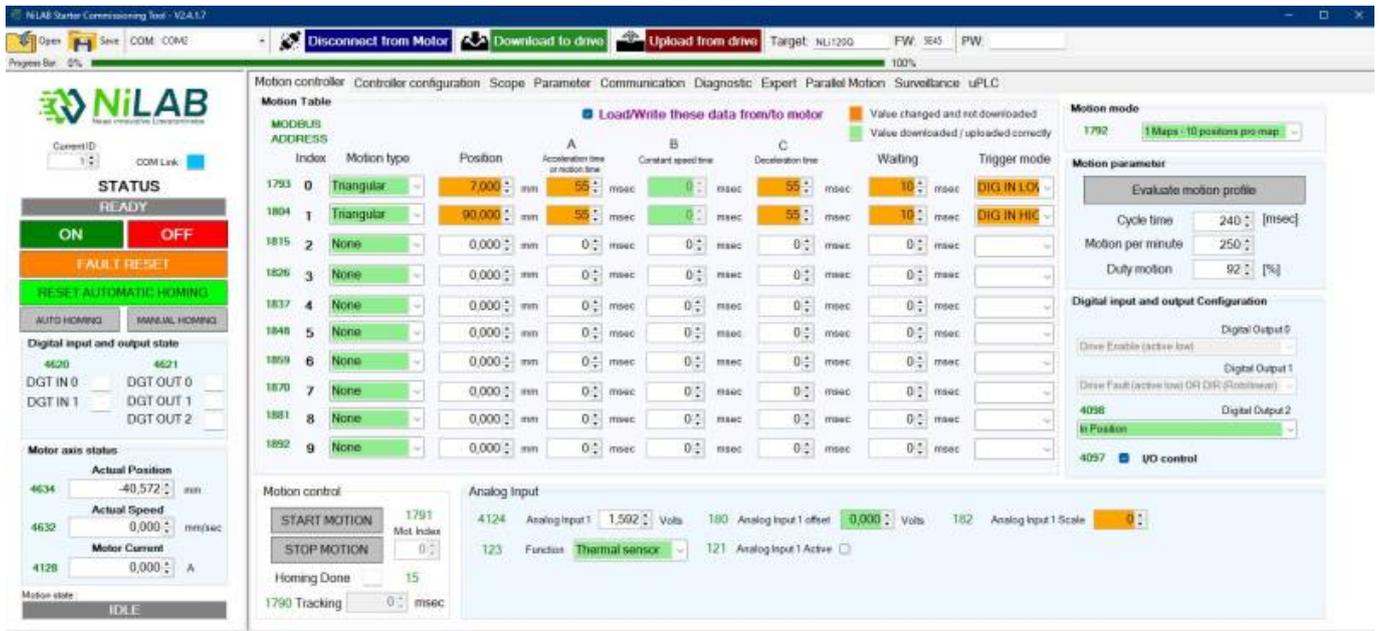
7. Connect to the motor. Please take into account that a new motor as ID = 1. Change the current ID to 1 and connect pressing the Connect to Motor button



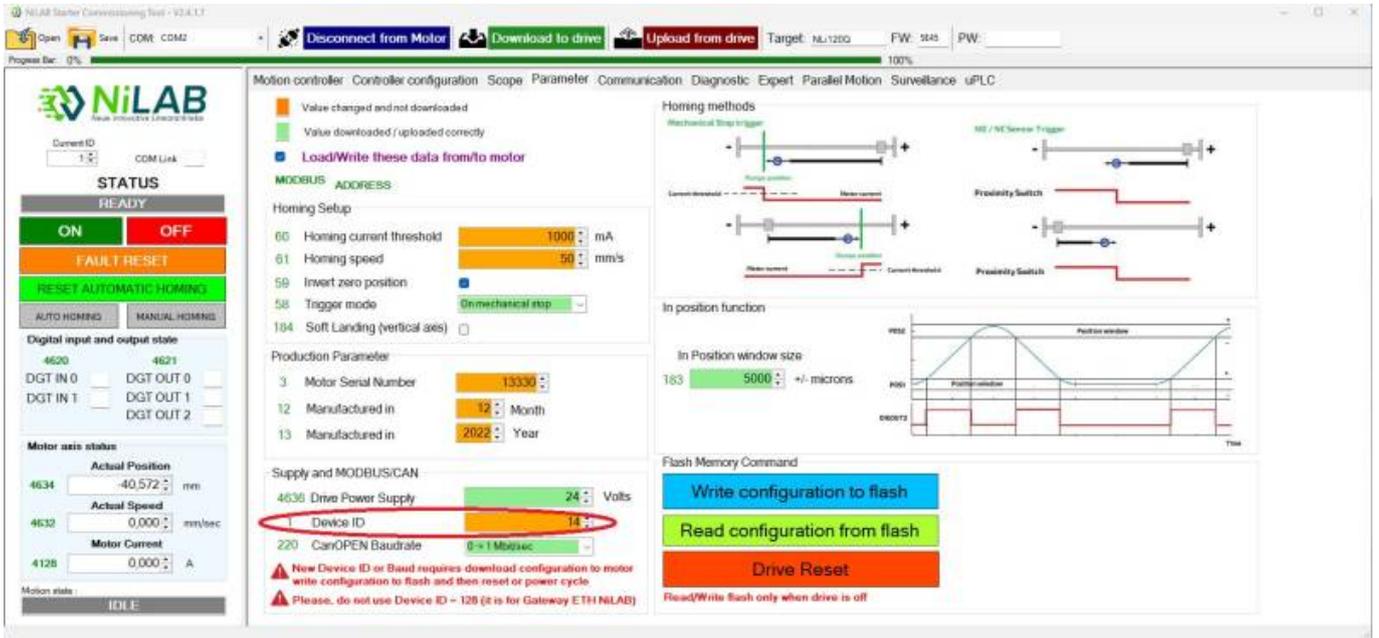
8. Load the configuration file you saved previously at the step 4 of this list.



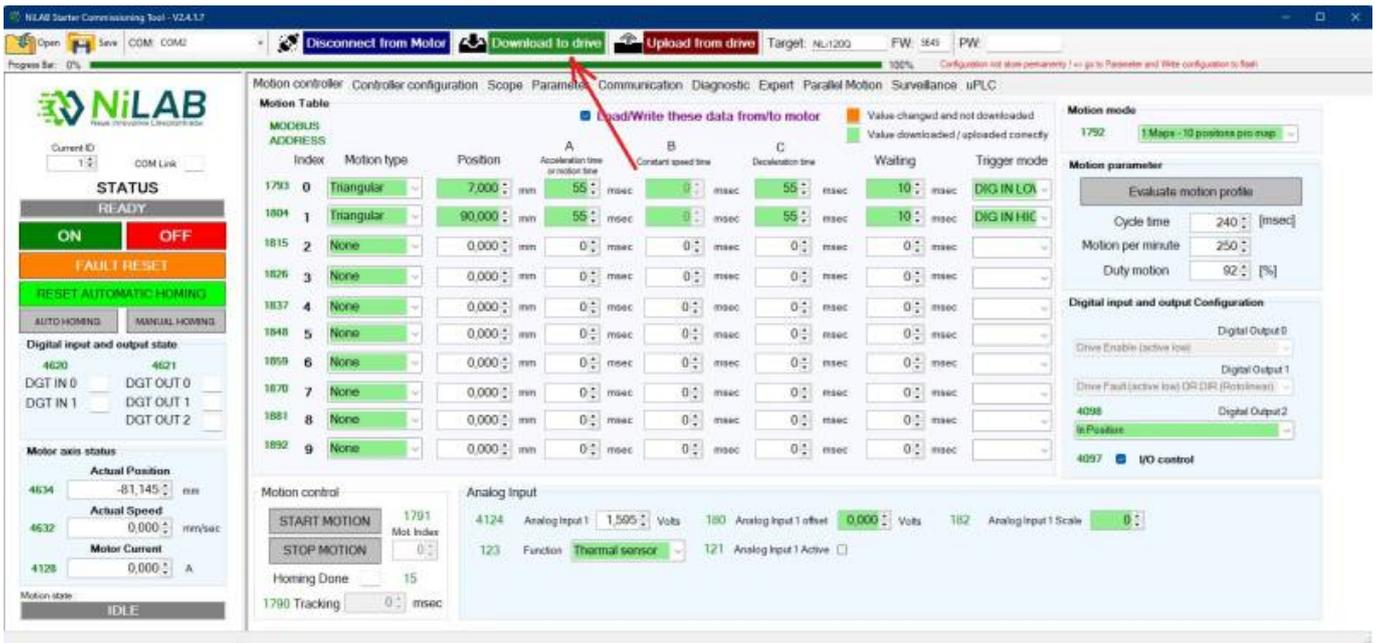
After loading the file all the differences are highlighted in orange color.



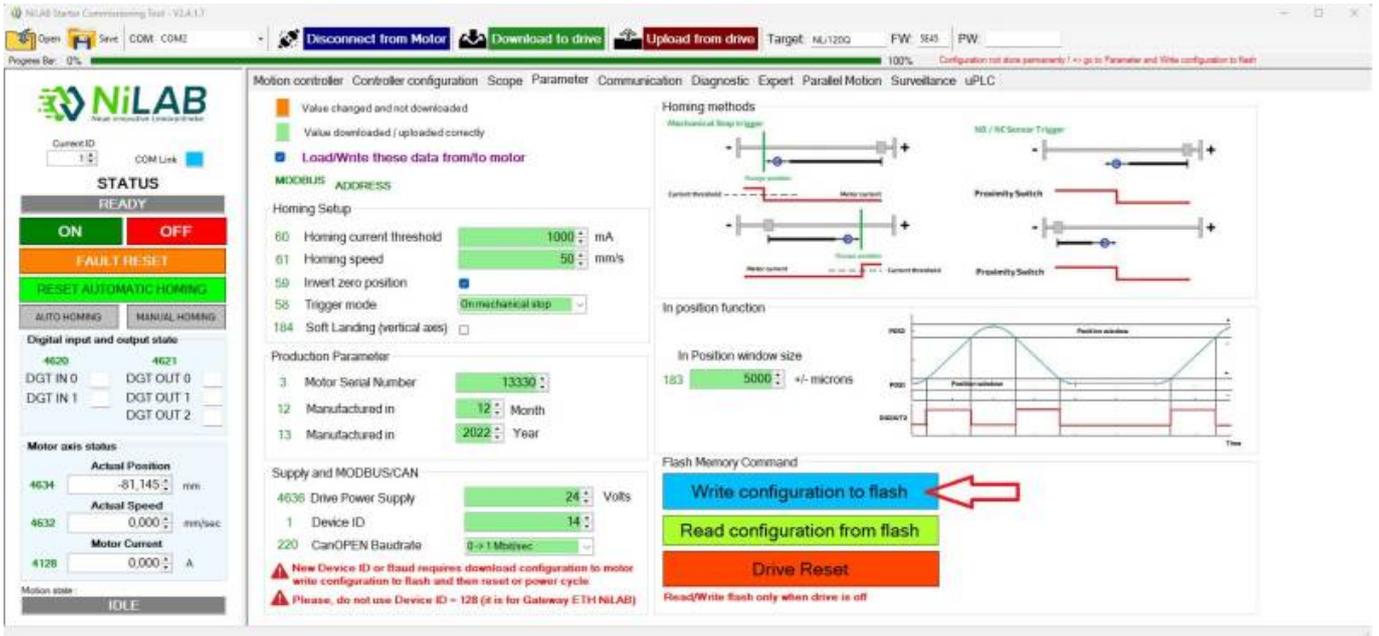
Please note that the Device ID is updated with the right one loaded from file.



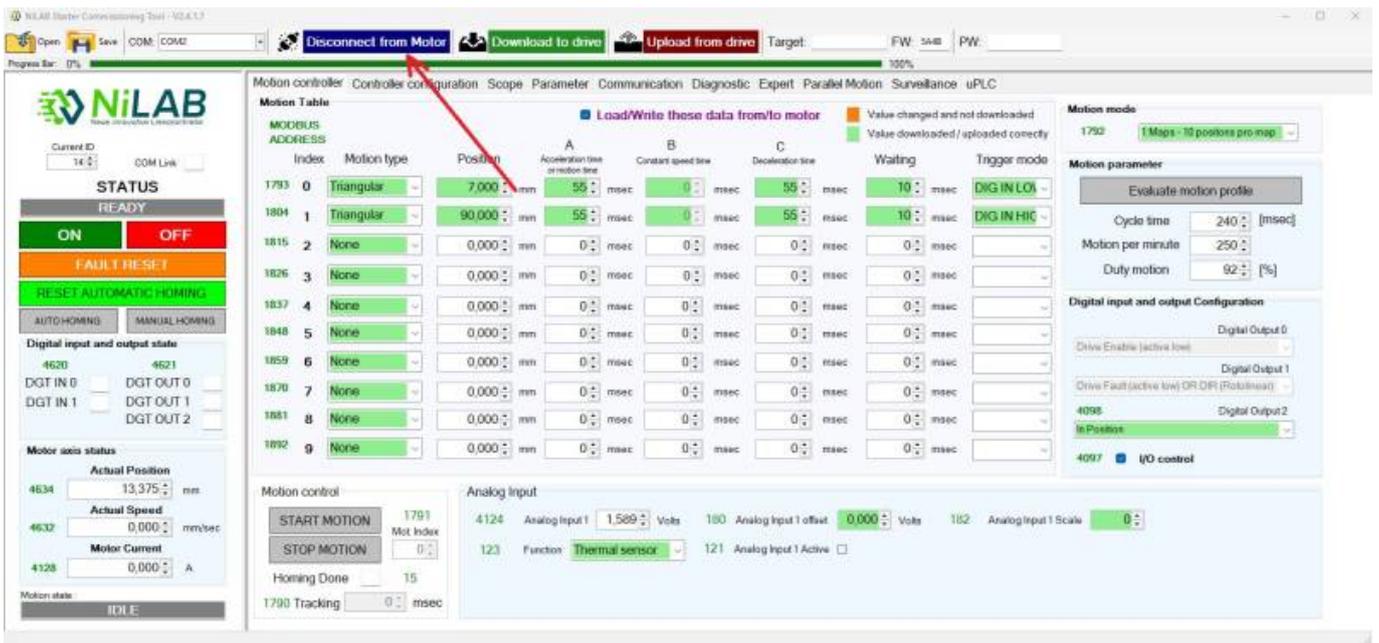
9. Download the configuration to the motor pressing Download to drive button and all the differences change to green color.



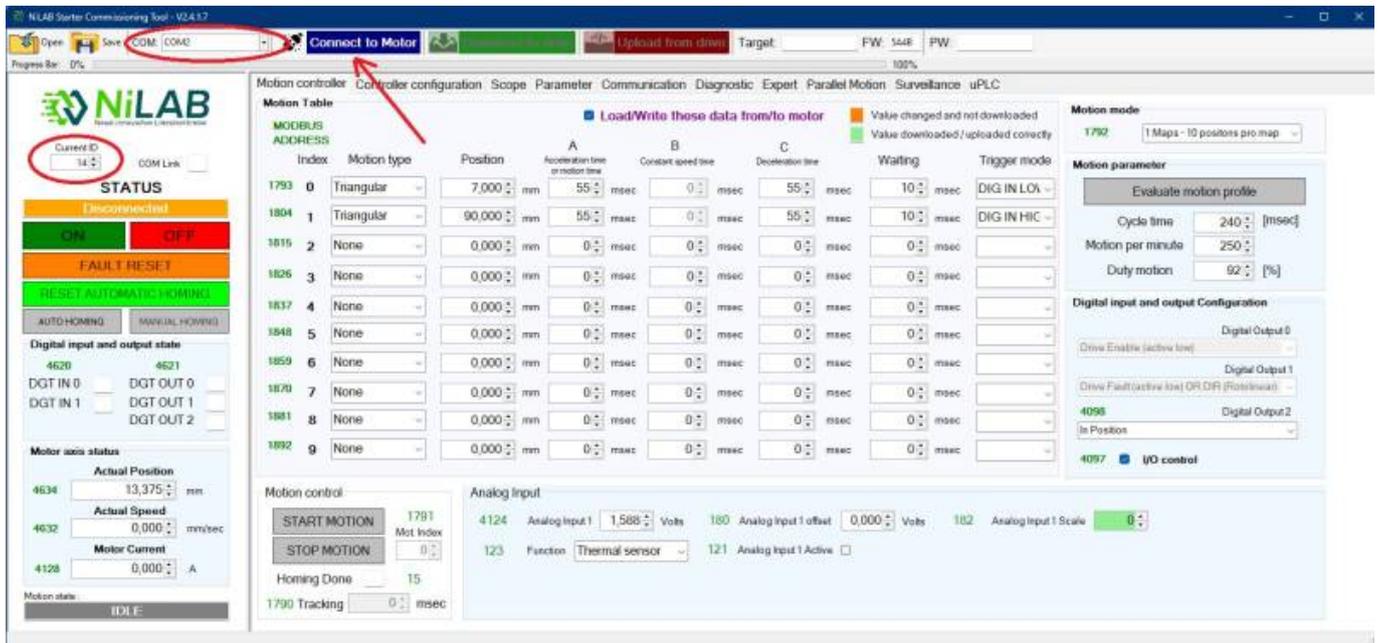
10. Store the configuration permanently to Flash pressing the Write configuration to flash button on the Parameter window.



**11. Disconnect the motor from NiLAB Starter and disconnect the power from the motor to update the Device ID to the new value.**



**12. Reconnect the motor to the power and wait 5 seconds before connect again using NiLAB Starter with the right ID (in this example we change the ID from 1 = Default to ID = 14).**



Check if the motor is running with the previous configuration of the replaced motor.

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[https://www.nilab.at/dokuwiki/doku.php?id=nilab\\_starter:reload\\_configuration](https://www.nilab.at/dokuwiki/doku.php?id=nilab_starter:reload_configuration)

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