How to Master Reset an Eclipse motion controller:

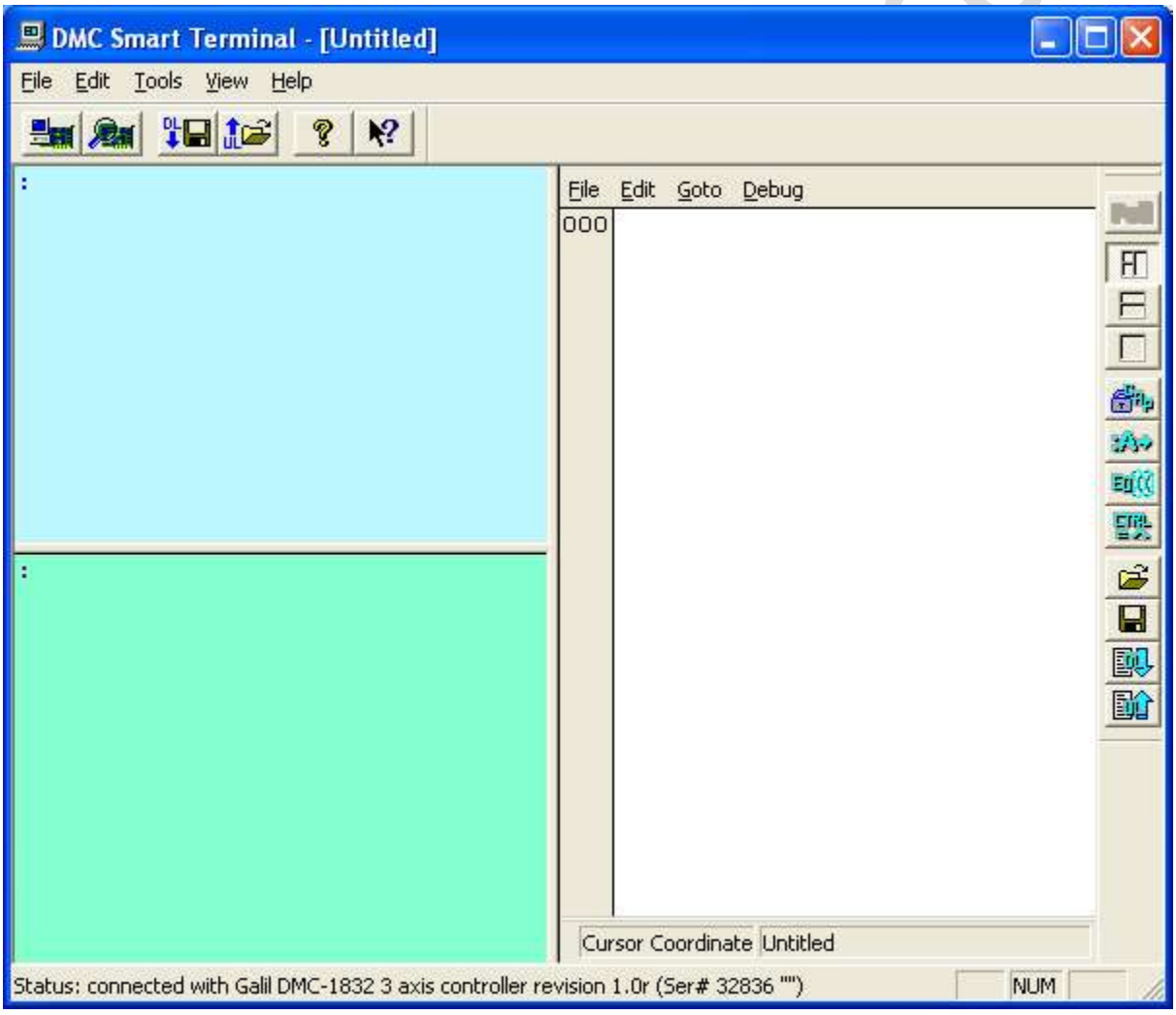
The machine should not have power or be connected to the computer until this process is complete.

Start SmartTerm or WDSK (Terminal)

CAPS lock should be ON.

Leave the cutting head open like you are going to change the blade. **Remove the blade.**

The terminal window is split into 2 or 3 areas. One area is for typing in commands (lt blue) and the other area is for the motion controller's replies (lt green). If you have 3 areas (white), this area is typically for writing a program. You can ignore this area.



In the lt blue area type the commands below followed by pressing the Enter key and record the controller's replies.

MT ?,?,? ↩

CE ?,?,? ↩

CN ?,? ↩

KD ?,?,? ↩

KP ?,?,? ↩

KI ?,?,? ↩

OE ?,?,? ↩

ER ?,?,? ↩

VA ? ↩

VD ? ↩

VS ? ↩

VT ? ↩

AC ?,?,? ↩

DC ?,?,? ↩

SP ?,?,? ↩

IT ?,?,? ↩

Take a photo of the controllers response in the lt green area of the terminal window on the computer's monitor and email or text it to The CMC Doctor with your contact information.

These are computer jumpers:

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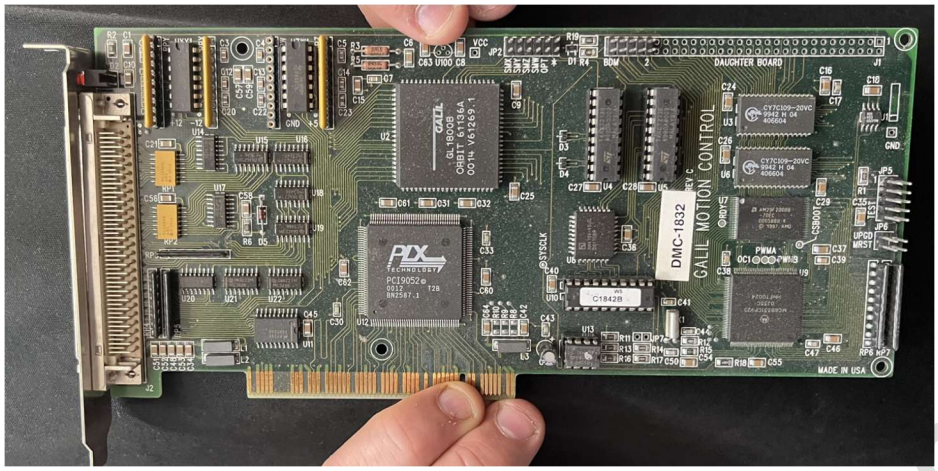
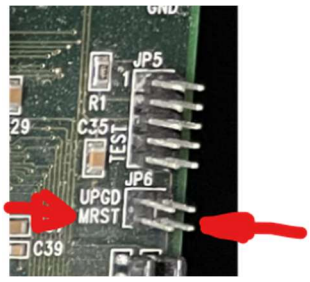
This an example of the motion controller card inside your machines PC.



Locate the pins labeled MRST and place a jumper across the two pins that line up with the MRST label.



Places the motion controller back in the PC and power the PC ON. Then Power the PC OFF. Remove the card and removes the jumper. Reinstall the card and power the PC back ON.

Start the Galil WSDK or SmartTerm software. Open a terminal window. Input, in the lt blue area, all of setting in the picture that you took above. Use the same commands as above but replace the question marks with data, example: MT ?,?,? ↩ becomes MT 1,-1,1 ↩. If you make a mistake simply re-enter the command again.

After all commands have been input entered using your own data, enter the following two commands:

OP 0 ↩

BN ↩

Your motion controller has now been Master Reset.

You can verify that you did this process properly by re-enter the commands with the question marks just like before and compare them to your photo.

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