

XL Motor Phasing Procedure

COM Port Setup

1. Open the VNC Viewer.
2. Quit the application.
3. From Start Menu. Go to – run and open “C:\program Files\Copley Motion\CME 2\CME 2.exe” and click “OK” for Disables Amplifier message.
4. Go to Tools – Communications Wizard.
 - a. Selected Devices menu.
 - i. Make sure that COM3 and COM 4 are present in the Selected Devices box. Add them from the Available Devices box if necessary and click next.
 - b. Configure Serial Ports menu.
 - i. Click on each COM port and set the baud rates to 115200 and click next.
 - c. Serial Port Settings menu.
 - i. Confirm that COM3, 115200 and COM4, 115200 are present and click finish.
5. In the main screen in the Copley Neighborhood folder. The COM3 and COM4 should be present.
6. Continue to X-Axis COM3 Procedure.

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X-Axis COM3

1. Select “COM3 X” and if the basic setup screen appears, cancel it.
 - a. Click on “Restore amplifier data from disk”.
 - b. Select and open file “x.ccx” from AmpData directory and select ok if a disable amplifier message appears.
 - c. Press “Save amplifier working memory to flash”.
2. Select the Input/Output Button.
 - a. Select IN2 and set to: “**Amp Enable-HI Enables With Clear Faults**”.
 - b. Close.
3. Manually position arm and carriage to the center of the machine.
4. On menu select “Amplifier/Auto phase/”.
 - a. Motor Direction Setup.
 - i. Move carriage approximately 1” to the “RIGHT” for the positive direction and press next.
 - b. Motor Wiring Setup.
 - i. Press start and wait until the motor wiring is configured and press next.
 - c. Phase Count Test.
 - i. Press start and wait until the Test Complete Phase Count OK message appears and press next. Note/Motor will rotate one full rotation.
 - d. Hall Wiring Setup.
 - i. Press start and wait until the motor is properly phased.
 - ii. Press finish.

Note/ If a motor data changed screen appears. Click OK to continue and do not save data file.

5. Select the Input/Output Button.
 - a. Select IN2 and set to: “**Amp Enable-Lo Enables With Clear Faults**”.
 - b. Close.
6. Save amplifier working memory to flash.
7. Select “Control Panel” and select “**Software Enable Amplifier**” and close.
8. Continue to Y-Axis COM4 Procedure.

XL Motor Phasing Procedure

Y-Axis COM4

1. Select **“COM4 Y”** and if the basic setup screen appears, cancel it.
 - a. Click on **“Restore amplifier from disk.”**
 - b. Select and open file **“y.ccx”** from AmpData directory and select ok if a disable amplifier message appears.
 - c. Press **“Save amplifier working memory to flash”**.
2. Select Input/Output Button.
 - a. Select IN2 and set to: **“Amp Enable-Hi Enables With Clear Faults”** and close.
3. On menu select **“Amplifier/Auto phase/”**.
 - a. Motor Direction Setup.
 - i. Move arm approximately 1” toward the front of the machine for a positive direction and press next.
 - b. Motor Wiring Setup.
 - i. Press start and wait until the motor wiring is configured and press next.
 - c. Phase Count Test.
 - i. Press start and wait until the Test Complete Phase Count OK message appears and press next. Note/Motor will rotate one full rotation.
 - d. Hall Wiring Setup.
 - i. Press start and wait until the motor is properly phased.
 - ii. Press finish.
4. Select Input/Output Button.
 - a. Select IN2 and set to: **“Amp Enable-Lo Enables With Clear Faults”** and close.
5. Save amplifier working memory flash.
6. Select **“Control Panel”**.
 - a. Select **“Software Enable Amplifier”** and close.
7. Exit CME2 program without saving.
8. Turn power off and re-boot.
9. Done.