

Applied Motion Products ST5-10-Plus Stepper Motor Controller User Guide

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Requirements

To begin, make sure you have the following equipment:

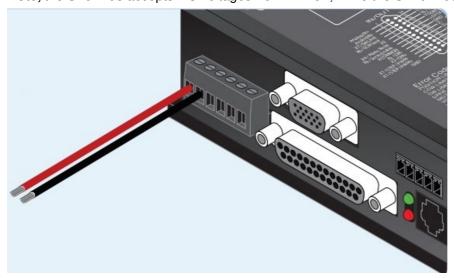
- · A compatible stepper motor.
- A small flat blade screwdriver for tightening the connectors (included).
- A personal computer running Microsoft Windows 95, 98, NT, Me, 2000 or XP, Vista or 7/8/10/11.
- ST Configurator™ software (available at <u>www.applied-motion.com</u>).
- An Applied Motion programming cable (included).
- For more detailed information, please download and read the ST5/10-S Hardware Manual, available at

Step 1

- Download and install the ST Configurator™ software.
- Launch the software by clicking: Start / Programs / Applied Motion Products / ST Configurator
- Connect the drive to your PC using the appropriate programming cable.

Step 2

Wire the drive to the DC power source. (do not apply power until all connections to the drive have been made)
 Note, the ST5-Plus accepts DC voltages from 24-48V, while the ST10-Plus accepts DC voltages from 24-80V.



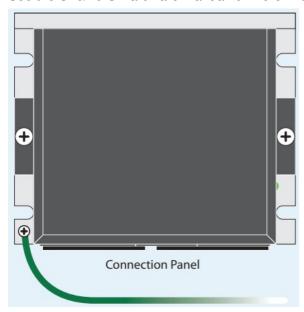
• Ensure a proper earth ground connection by using the screw on the left side of the chassis.

If using an external fuse, we recommend the following:

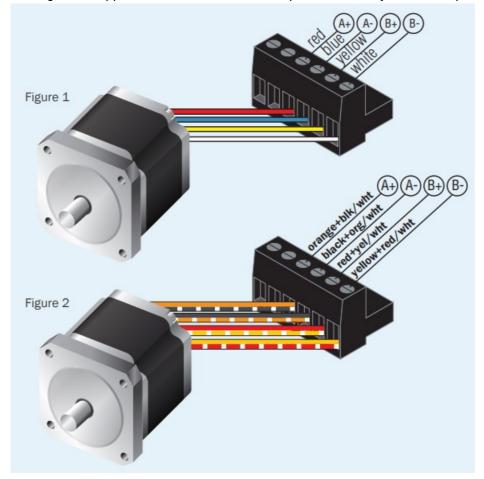
ST5: 3AG, 4 amp (Littlefuse 313004P)

ST10: 3AG, 6.25 amp (Littlefuse 3136.25P)

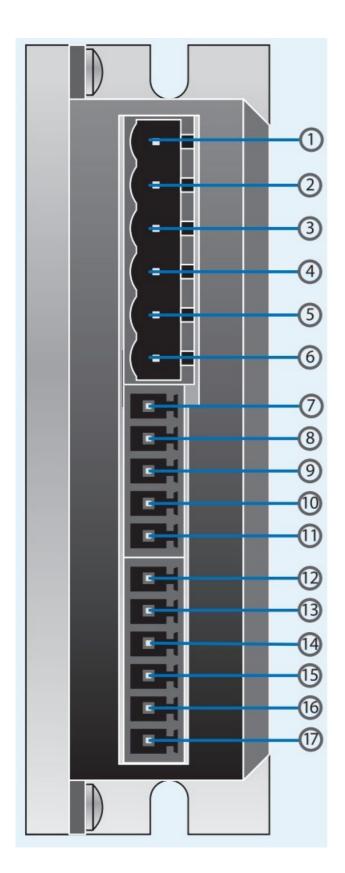
See the ST5/10-S Hardware Manual for more information about power supply and fuse selection.



Connect the drive to the motor. Four lead motors can be connected in only one way, as shown in **Figure 1.** We recommend that eight lead motors be connected in parallel, as shown in **Figure 2.** If using a non-Applied Motion Products motor, please refer to your motor specs for wiring information.



I/O Pinout - ST5/10-S/Plus

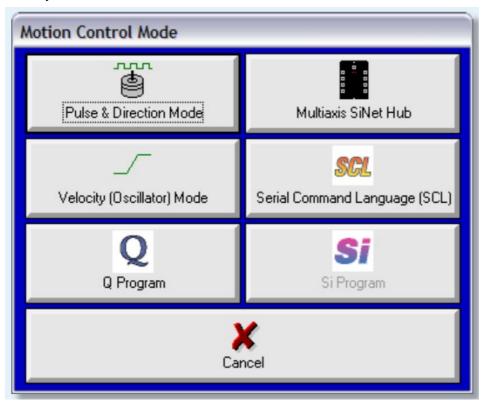


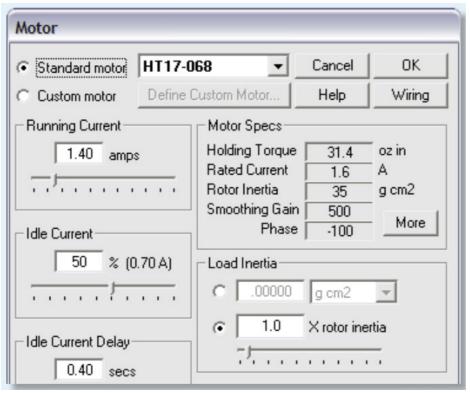
- 1. Power
- 2. GND
- 3. Motor A+
- 4. Motor A-
- 5. Motor B+
- 6. Motor B-
- 7. GND
- 8. AIN

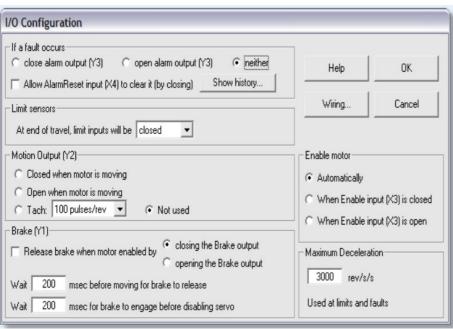
- 9. +5V
- 10. OUT
- 11. OUT+
- 12. EN-
- 13. EN+
- 14. DIR
- 15. DIR+
- 16. STEP-
- 17. STEP+

Step 4

- Apply power to the drive.
- Follow the configuration instructions in the ST Configurator[™] help screens. The ST Configurator[™] software
 can be used to set up your drive to operate in several different modes including: Pulse & Direction, Analog
 Velocity, and SCL.









18645 Madrone Pkwy. Morgan Hill, CA 95037 Tel: 800-525-1609

Fax: 831-761 -6544

www.applied-motion.com

Documents / Resources



<u>Applied Motion Products ST5-10-Plus Stepper Motor Controller</u> [pdf] User Guide ST5-10-Plus Stepper Motor Controller, ST5-10-Plus, Stepper Motor Controller, Motor Controller, Controller

References

- Applied Motion
- Product Manuals by Type | Applied Motion

Manuals+.