



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

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Applied Motion Products ST5-10-S Stepper Motor Controller



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 www.applied-motion.com).
- An Applied Motion programming cable (included).
- For more detailed information, please download and read the ST5/10-S Hard-ware Manual, available at www.applied-motion.com/support/manuals.

Step 1

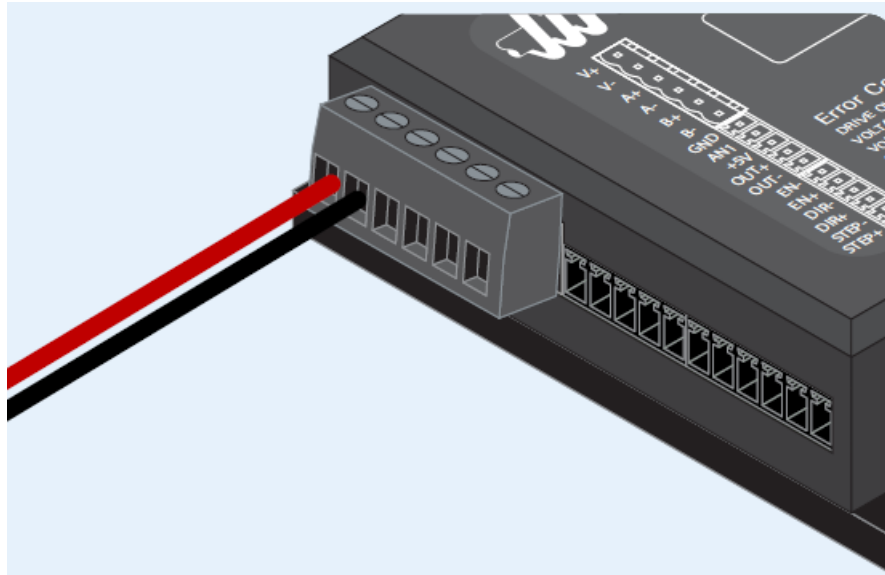
- Download and install the ST Configurator™ software.
- Launch the software by clicking: Start / Programs / Applied Motion Products / ST Configurator
- Connect the drive to your PC using the appropriate programming cable.



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-S accepts DC voltages from 24-48V, while the ST10-S accepts DC voltages from 24-80V.



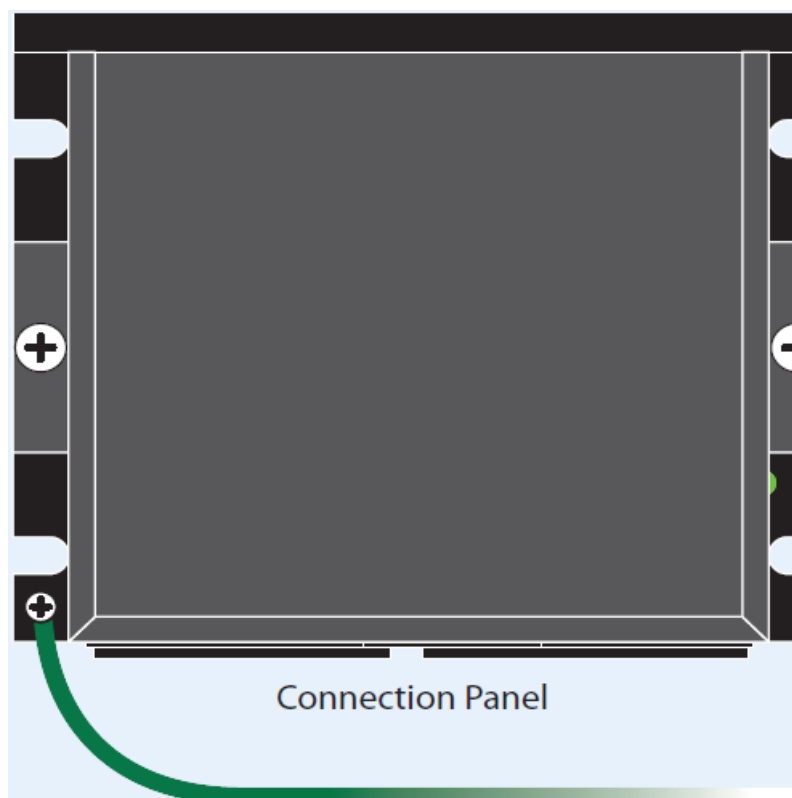
- Ensure a proper earth ground connection by using the screw on the left side of the chassis.

If using an external fuse, we recommend the following:

ST5-IP: Littelfuse 312007P 7A, 250V, Fast-Acting Fuse or equivalent

ST10-IP: Littelfuse 312007P 7A, 250V, Fast-Acting Fuse or equivalent

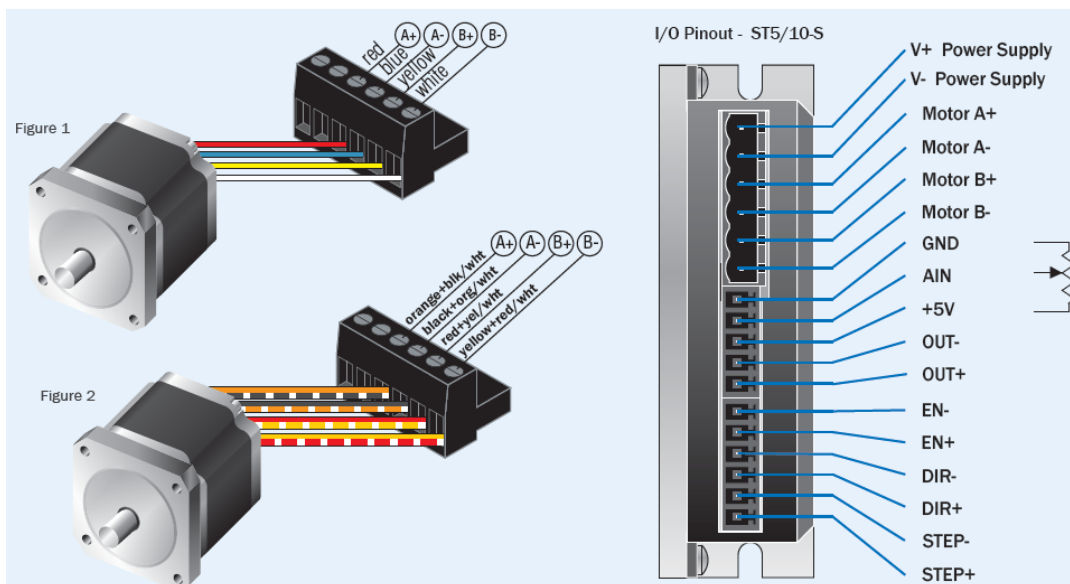
See the ST5/10-S Hardware Manual for more information about power supply and fuse selection.



Warning – If you are using a non-Applied Motion motor, do not connect the motor until after you have configured the drive for your motor.

Step 3

- Connect the drive to the motor.
- Four lead motors can be connected in only one way, We recommend that eight lead motors be connected in parallel,



- If using a non-Applied Motion Products motor, please refer to your motor specs for wiring information.

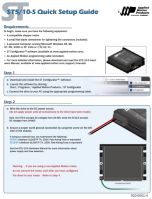
Step 4

- Refer to ST5/10-S hardware manual for recommended I/O voltages and currents, wire I/O accordingly.
- Launch ST Configurator and select the correct com. port from the pulldown menu
- 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.



If you have any questions or comments, please call Applied Motion Products Customer Support:(800) 525-1609, or visit us online at www.applied-motion.com.

Documents / Resources

	<p>Applied Motion Products ST5-10-S Stepper Motor Controller [pdf] User Guide ST5-10-S Stepper Motor Controller, ST5-10-S, Stepper Motor Controller, Motor Controller, Controller</p>
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References

-  [Applied Motion](#)
-  [Product Manuals by Type | Applied Motion](#)

Manuals+.