

STM17C Quick Setup Guide



Requirements

To begin, make sure you have the following equipment:

- A small flat blade screwdriver for tightening the connectors (included).
- A personal computer running Microsoft Windows 98, 2000, ME, NT, XP, Vista or 7.
- *ST Configurator™* software (available at www.applied-motion.com).
- An RS-232 Applied Motion programming cable (included).
- A 5 pin spring connector (included) for connecting to the CAN network
- For more detailed information, please download and read the *STM17 Hardware Manual* available at www.applied-motion.com/support/manuals.

Step 1 - Power Supply and I/O Wiring

- Wire the drive to the DC power source.

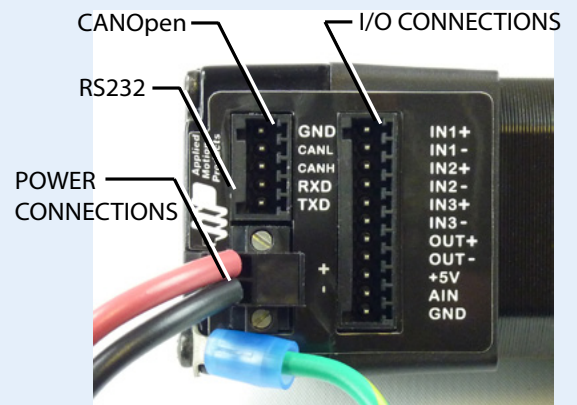
Do not apply power until Step 3.

Note - the STM17 accepts DC voltages from 12-48V. If using an external fuse, we recommend: a 3AG, 2 Amp Slow Blow (Littelfuse 313002.HXP).

See the *STM17 Hardware Manual* for more information about power supply and fuse selection.

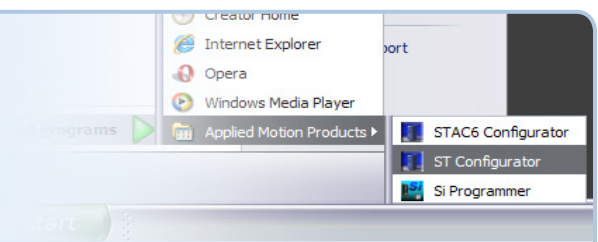
- Connect I/O, if required by your application.

See the *STM17 Hardware Manual* for more information about connecting I/O.



Step 2 - ST Configurator

- Connect the RS-232 programming cable.
- Download and install *ST Configurator™* software, available at www.applied-motion.com.
- Launch the software by clicking Start/Programs/Applied Motion Products/ST Configurator
- If you have any questions or comments, please call Applied Motion Products Customer Support (800)525-1609 or visit us online www.applied-motion.com.



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Step 3 - Drive Configuration

- Apply power to the drive.
- Use *ST Configurator™* to set up the motor current, limit switches, encoder functionality (if applicable) and Node ID. (See d)
- ST Configurator™* includes a self test option (under the Drive menu) to verify that the STM17C and power supply are correctly wired and configured.
- Set BitRate, Node ID

CANopen Bitrate - AMP CANopen drives have three settings, one for Bit Rate and two for Node ID. The Bit Rate is configured using a ten-position switch. See Bit Rate table for the Bit Rate settings.

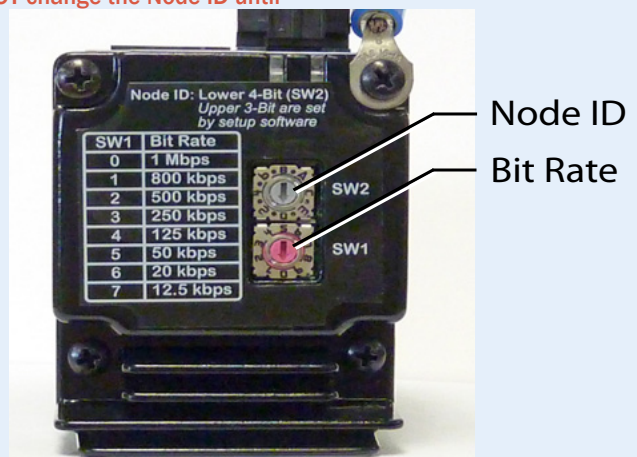
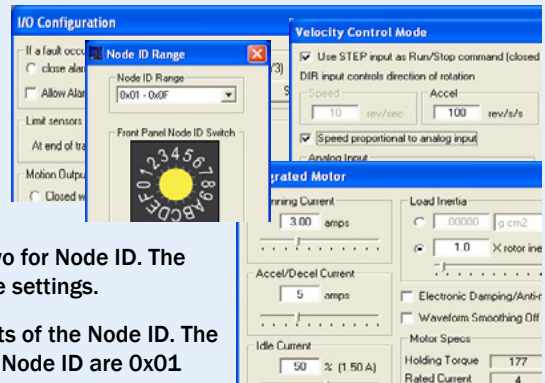
The Node ID is configured using a sixteen position switch to set up the lower four bits of the Node ID. The upper three bits of the Node ID are set using *ST Configurator™*. Valid ranges for the Node ID are 0x01 through 0x7F. Node ID 0x00 is reserved in accordance to DS301 specification.

Note: The Node ID and Bit Rate are captured only after a power cycle, or after a network reset command has been sent. Changing the switches while the drive is powered on will NOT change the Node ID until one of these conditions has also been met.

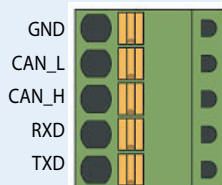
- When configuration is complete, exit *ST Configurator™*, power off the drive and unplug the RS-232 cable.

Bit Rate Table

Switch Setting	Resultant Bit Rate
0	1 Mbps
1	800kbps
2	500 kbps
3	250 kbps
4	125 kbps
5	50 kbps
6	20 kbps
7	12.5 kbps
8	n/a
9	n/a



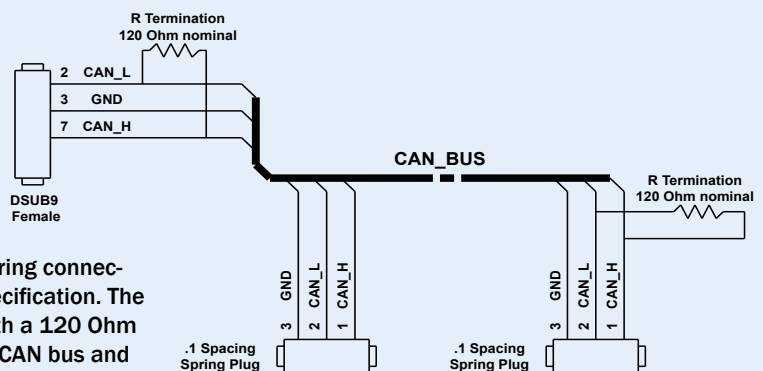
Step 4 - CANopen Bus Wiring



5 Pin Connector

- Wire to CAN network.

The Applied Motion Products STM17 drive uses a five-pin spring connector, that conforms to the DR303 cabling and connectors specification. The connector should be wired in a daisy-chain configuration with a 120 Ohm resistor used to terminate each end. Attach the drive to the CAN bus and power-up the drive.



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.



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