

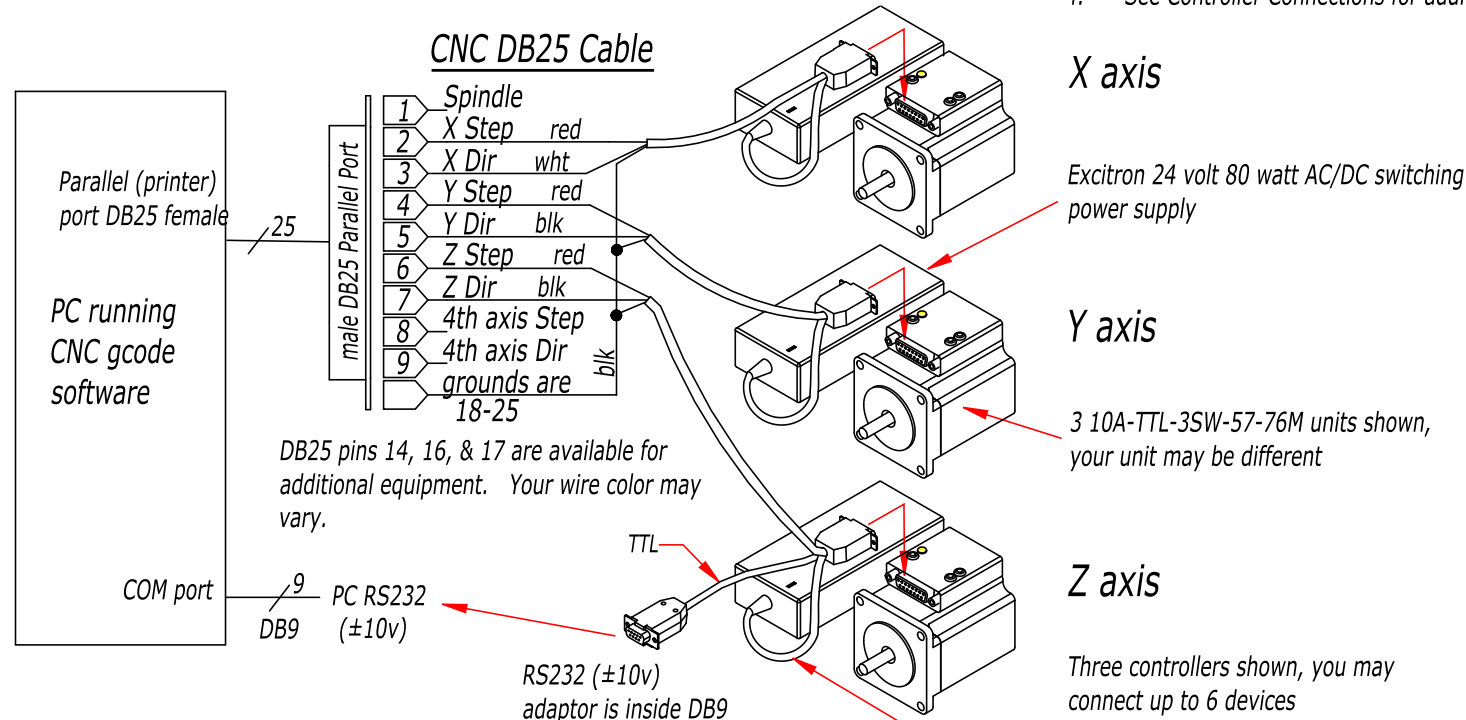
CNC DB25 Cable:

This cable provides an easy connection for the PC parallel port CNC step/dir pins. Up to 6 axis can be connected, depending on your CNC program. All PC CNC programs output **step** and **direction** signals to the PC parallel DB25 connector, and the Controller accepts **step** and **direction** when in Driver Mode. You may use a DB25 extension cable (25 stranded wires, shielded) between your PC and the CNC DB25 cable. Other equipment may be connected by soldering wires to the DB25 socket pins.

Power Supply Cable:

Best configuration is shown--AC/DC power supply close to the Controller, to reduce electrical noise. Then only the inexpensive AC power cord flexes during movement.

IMPORTANT! DO NOT run AC cables near any DC or signal cables!



CNC Setup:

- Simply plug each motor/controller into the appropriate DB15 male connector, and plug the DB25 connector into your PC's Printer Port (DB25).
- Run your PC CNC software program, and configure the printer port outputs to match the step and direction signals to the particular parallel port pin. The most logical pin configuration is shown here. If your program has Enable outputs, ignore them for use with the motor/controllers. Also change the CNC program configuration for the: number of motor steps per inch (or mm); maximum velocity; acceleration; and possibly other values.

Serial Port Setup:

- If you want to change the Controller's full/half step, brake, or torque (these are not changed by your CNC program), then run Hyperterminal or any serial program, which uses the PC serial COM port connected to the Controller, if it has an RS232-TTL Adapter.
- Type '@' to put the Controller into Command Mode, change full/half step, brake, or torque, then save your changes to Motion Profile #01 using the 'U' 01 command. Then set for Driver Mode by typing 'c' then 'd'. When in Driver Mode, the Controller will echo serial characters, but will not respond to them, except the '@' which stops Driver Mode and puts it back into Command Mode. The J command is available in Driver Mode.
- Optionally, you should order the RS232-TTL adaptor for each motor/controller, otherwise you will not have complete flexibility.
- See Controller Connections for additional information.

X axis

Excitron 24 volt 80 watt AC/DC switching power supply

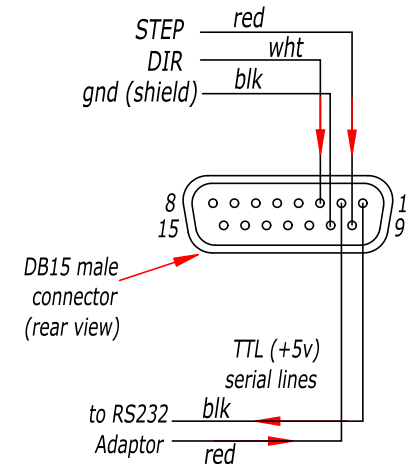
Y axis

3 10A-TTL-3SW-57-76M units shown, your unit may be different

Z axis

Three controllers shown, you may connect up to 6 devices

DC Power supply wires:
white is +24 Vdc, outer strands are ground.
Keep as short as possible.



DB15 type Wires

Note: RS232 and Step/dir cables supplied by Excitron are jacketed shielded cable with two 24 awg conductors and a shield as ground.

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CNC DB25 Diagram