



### CAUTION!

Do not "hot plug" the stepper motors. Always turn power off to the driver box before plugging in or unplugging a stepper motor. Failure to do so can burn out a chip in the driver box.

# SHERLINE PRODUCTS

INCORPORATED 1974

## CNC 4-axis Driver Box

P/N 8760

### Connecting the driver box

The Sherline 8760 driver box is designed to power as many as 4 individual stepper motors at one time. The female plugs on the cables will attach directly to the male plugs on the P/N 67127 stepper motors available from Sherline. Each axis is labeled on the plug. There is a 25-pin cable that plugs in to the printer (parallel) port of your computer. The power supply that plugs into the wall will automatically adapt to either 115 VAC or 230 VAC current, so no manual switching is necessary.

### Operation

**It is recommended that the driver box power switch be left in the "Off" position while the computer is turned on and the control program is loaded.** Once EMC or whatever control program you are using is fully loaded, turn on the "Power" switch on the driver box to the "On" position to power up the stepper motors. Once powered up, it is not possible (or at least very difficult) to turn the motors by hand using the handwheel. Therefore, it is recommended that any manual positioning of the axes be done before the power to the motors is turned on.

### Emergency stop

Should you find that you have accidentally started a program running with the cutter in some position other than the home position or that some other physical damage is about to occur, the On/Off switch on the driver box can be used as an emergency stop switch. Switching it to the "Off" position while a program is running will simply stop all motors immediately but will not damage the computer or program. The program will continue to run but the axes will not move. Simply shut off the spindle motor, stop the program on the computer, relocate the axes to their home position manually or with the jog control, turn power back on to the motors and spindle and run the program again from the beginning.

### Linux installation

Sherline does not guarantee that the Linux operating system provided on the enclosed CD's will install on any

given computer. Component compatibility is sometimes an issue. It is recommended that anyone attempting to install Linux themselves on their own computer should have a fairly high level of familiarity with Linux. Sherline does not provide technical support for installation of Linux or EMC, but help is available on-line through the Linux group at [www.linux.org](http://www.linux.org). An installation sheet is provided to help you navigate the screens while installing the program.

### Minimum computer requirements

In order to install and run a Linux based system from the CD's provided it is recommended the computer have at least the following specifications:

- Processor speed: 800 MHz or faster (Pentium III class or equivalent processor)
- RAM: 128 Mb minimum
- Hard Drive: 20 Mb or larger
- 25-pin parallel port (printer port)

### Included Components

- Driver box with 4 motor cables
- 4 amp, 24 volt power supply with cord
- 25-pin parallel cable
- 2 CD set with Linux/EMC, utilities and instructions

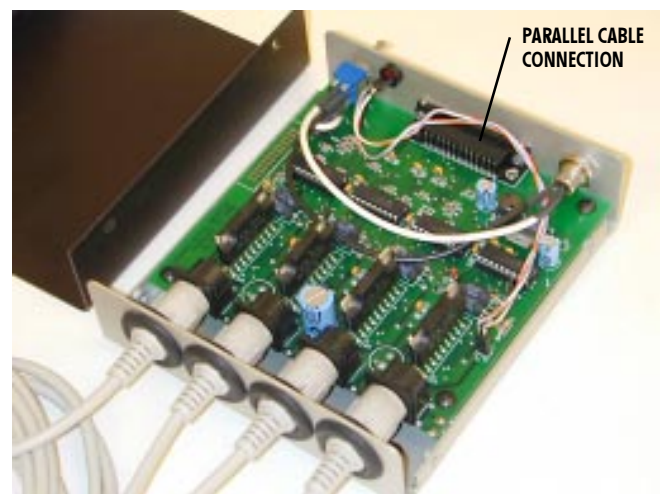


Figure 1—The driver box with the cover removed.