

EC COMMUNICATION FAILURES

Overview

-The EC software communicates with the NH Controller via a serial communication port. Comm port 1 is the default but comm. Port 2 may be selected by adding the appropriate switch at the end of the command line (/c2). The communication parameters are set by the EC software and supersede any parameters specified by the user in the auto exec file of from the Dos command line (19.2k baud, 8 data bits, 2 stop bits, no parity).

-The EC software is written for a DOS platform. The document does not support the use of a Windows or Network platform, nor does the Newing-Hall Customer Service department.

-The communication cable is a straight through rs232 cable. Pins 1,2,3, and 7 are the only pins utilized.

Troubleshooting

Symptom: Control Board Not Responding

- Controller must be powered on and in Start/Automatic mode
- Test the controller panel functions listed below. If one or more of the functions are inoperable the communication failure is a symptom of a controller failure. Contact customer service for additional assistance. Test the following in Stop/Manual Mode: Joystick, Left Spindle, Right Spindle, and Rotary Motor.
- Make certain the communication cable is connected at both ends and securely fastened with screws to ensure a good connection. The communication cable should be connected to the 25 pin connector in the rear of the controller which is closest to the fan and to the appropriate communication port in the rear of the computer (Reference your computer manual if the communication ports are not labeled).
- Check communication cable for breaks or exposed wires. If the communication cable appears to have become damaged from the rotary motor belt rubbing against the cable, there is a possibility of internal controller damage. Replace communication cable and test. Call Newing-Hall customer service if symptoms persist.
- Remove any expanded memory managers such as EMM386 from your autoexec.exe and config.sys files. Expanded memory managers are known to create conflicts during the execution of the EC software. The autoexec.exe and the config.sys files may be viewed and edited with a text editor or a word processor.
- If you are unfamiliar with the computer you are using try all combinations of Com port settings (software).

- If available, use a second computer, controller or communication cable to determine the faulty device by process of elimination.
- If the computer is new or hardware has been added to an existing computer, ensure that the hardware IRQ selected on the Comm port is not in conflict with another devices IRQ setting. Reference your computers documentation or contact your computer retailer and/or manufacturer.