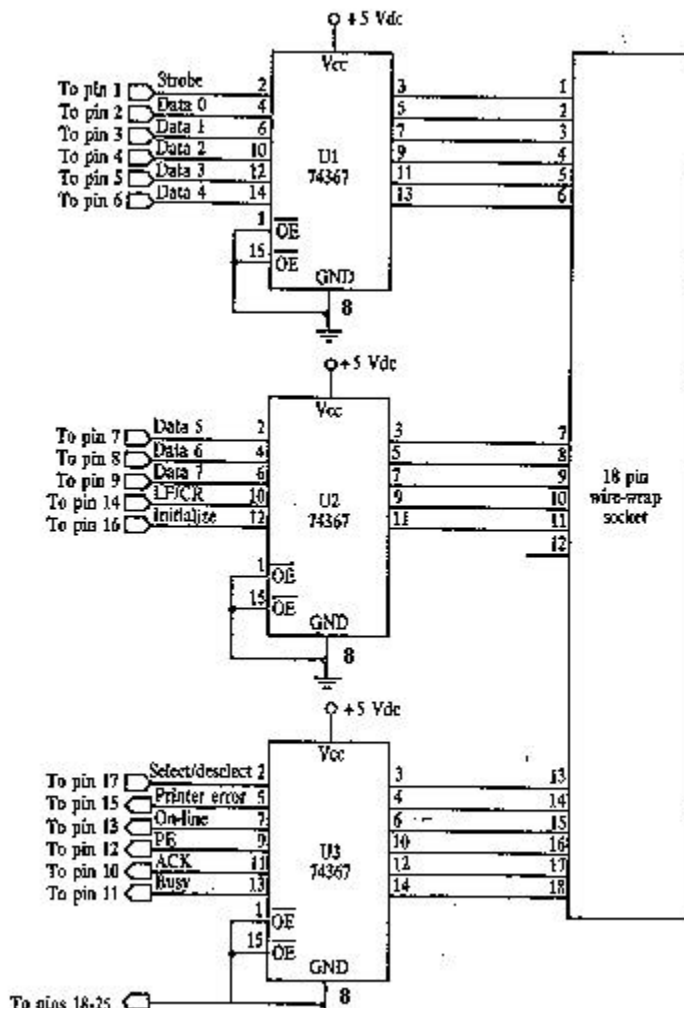


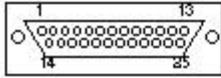
# Simple Parallel (Printer) Port Interface

This is the basic interface I used as part of my [Computerized Room](#) project. This is the parallel interface only. The 8 bit input card can be found, along with the rest of the project, at [Computerize Your Room/House](#). This interface, as well as the other two interfaces, came from the book "The Robot Builders Bonanza", by Gordan McComb. This interface is also useful for controlling small robots, etc. It is cheap and fairly easy to build, although you should not attempt this project unless you have prior experience with electronics. You probably won't damage anything if you hook it up wrong, but there is always a chance (some parallel ports are better protected then others). If possible, test the project on someone else's, or a school computer :-)

## Schematic



## Parallel Port Pin Assignments



View is looking at  
Connector side of  
DB-25 Male Connector.

<u>Pin</u>	<u>Description</u>		
1	<u>Strobe</u>	PC Output	Pin Assignments  Note: 8 Data Outputs 4 Misc Other Outputs  5 Data Inputs
2	Data 0	PC Output	
3	Data 1	PC Output	
4	Data 2	PC Output	
5	Data 3	PC Output	
6	Data 4	PC Output	
7	Data 5	PC Output	
8	Data 6	PC Output	
9	Data 7	PC Output	Note: Pins 18-25 are Ground
10	<u>ACK</u>	PC Input	
11	Busy	PC Input	
12	Paper Empty	PC Input	
13	Select	PC Input	
14	<u>Auto Feed</u>	PC Output	
15	<u>Error</u>	PC Input	
16	Initialize Printer	PC Output	
17	<u>Select Input</u>	PC Output	

## Parts

U1,U2,U3\_\_\_\_74LS367 (or 74367, etc.) Buffer IC.

MISC\_\_\_\_\_Case, Wire, Sockests, 18 Pin Socket (For Output), 25 Pin Connector (For Parallel Port), Ribbon Cable.

## Notes

1. I built the interface on a piece of universal solder board due to the large number of wires that must cross. It is also much easier to fix mistakes then on a PC board. I also used a 25 pin crimp connector to connect it to the parallel port. 26 conductor ribbon cable was used to link the connector to the board.
2. This interface only offers 5 inputs (on some computers it may be less). For more inputs, see [Computerize Your Room/House](#). If you choose to use the inputs, remember that the voltage level can not exceed 5 volts or fall below ground.
3. This circuit is TTL and therefor **MUST** be powered by no more then 5 volts.
4. You can download control software from my [files](#) section.

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