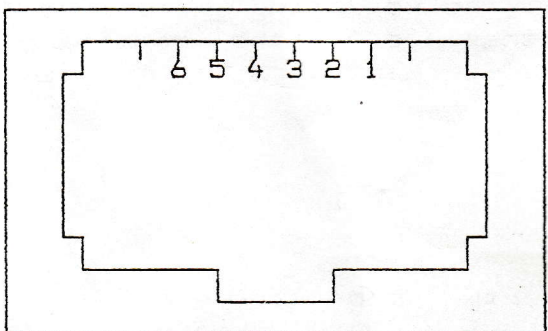


# Jameco KB75 (Coleco Adam) Keyboard

The KB75 is a high speed serial keyboard with a 21 character typeahead buffer. Communication is via a combined transmit/receive line that has rs232 type signals (difference: KB75 0 to 5 volts, RS232 -12 to 12). The keyboard must be polled for characters.

Hardware setup:

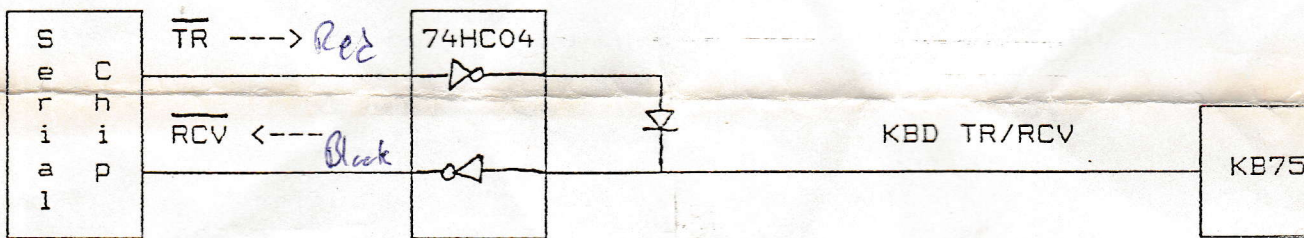
6343



(Looking into back of keyboard)

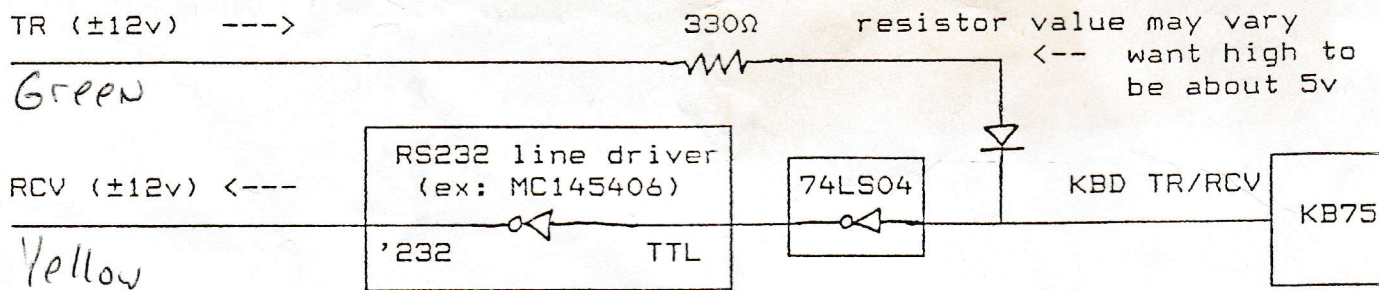
- 6 -- Combined transmit/receive *Blue*
- 5 -- Reset (can leave unconnected) *Yellow*
- 4 -- Ground *Green*
- 3 -- Ground *Red*
- 2 -- Ground *Black*
- 1 -- Power *White*

Direct connection to a microprocessor system (best)



*Black*

Connection to an RS232 line



The KB75 transmits and receives: 8 bits, no parity, one stop bit. The baud rate is an unusual 62,500 baud. This may be slowed to 38,400 baud by replacing the 4.00MHz crystal with a 2.4576MHz crystal.

Reading the keyboard:

Important- after you transmit, wait for all the resulting characters before transmitting again. Also bear in mind that due to the combined transmit/receive line, you also receive all characters that you transmit.

Keyboard commands(all values in hex or "ASCII"):

Transmit	Result
01h 01h	Reset. Clear typeahead buffer, turn caps lock off
"A"	Kbd sends either "A"(no char) or 91h(char in buffer)
"1"	Kbd sends 0B1h 00h 01h char char (char is char in buff) You must now send either a "!"(tell kbd to remove char from buffer) or any other char(leave char in buffer)

Sample sequence:

Sent	Received	Comment
01h 01h	01h 01h	Send on startup or to flush buffer
"A"	"AA"	Is char in buffer? No.
"A"	"A" 91h	Yes a "g" is now pressed Is char in buffer? Yes
"1"	"1" 0B1h 00h 01h "gg"	Character is "g"
"!"	"!"	Remove "g" from buffer
"A"	"A" ?	Continue looking for a char

Good Luck!

*CI = ignored*

*ca*