

JOHN GILBERT & COMPANY LTD.

*Importers * Exporters * Manufacturers * Merchants
Electronic parts and equipment*

Parnell Rise (Gittos Street)

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Parnell

**SYSTEM 80 KITSET INSTRUCTIONS
CLOCK SPEED UP**

- 1/ Remove cover.
- 2/ Disconnect and remove keyboard unit- handle connecting cable carefully.
- 3/ Disconnect CPU board from interface board- again handle connecting cable carefully.
- 4/ Disconnect power cable from CPU board then remove CPU board.

Underneath CPU Board

- 1/ Cut trace from pin 8 of Z38.
- 2/ Connect pins 12 and 13 of Z39.

On Component Side of CPU Board

- 1/ Take a 74LS74 and cut off pins 5 and 8 to 13.
- 2/ Piggyback the 74LS74 (Z40A) on top of Z40. Solder pins 4,7 and 14. Bend out pins 1,2,3 and 6.
- * 3/ Take a 74LS157 and cut off pins 5 to 7 and 9 to 14.
- 4/ Piggyback the 74LS157 (Z24A) on top of Z24. Solder pins 8,15 and 16. Bend out pins 1 to 4.
- 5/ Cut trace from pin 5 of Z40.
- 6/ Connect a 2K2 ohm resistor from pin 14 to pin 2 of Z40A.
- 7/ Connect pin 3 of Z16 to pin 3 of Z40A.
- 8/ Connect pin 1 of Z40A to pin 14 of Z40A.
- 9/ Connect pin 6 of Z40A to pin 1 of Z24A.
- 10/ Connect pin 2 of Z37 to pin 4 of Z24A.
- 11/ Connect pin 8 of Z38 to pin 3 of Z24A.
- 12/ Connect pin 11 of Z38 to pin 2 of Z24A.

Mount switch on case and connect one side to pin 7 of Z40 and the other to pin 2 of Z40A.

Reassemble system and test

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Refer attached for alternative circuit using 74LS00 instead of 74LS157. The 74LS00 is mounted on top of Z39 (more compact).

