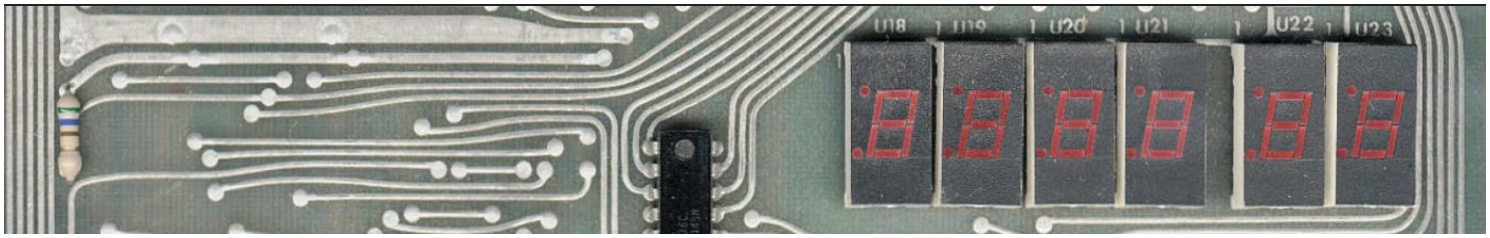

TALKING ELECTRONICS MICROCOMP

A second Z80 system, with a minimum on parts: the Microcomp. Published in issue 13 and 14.

This is a 3-chip computer capable of input and displaying data on a display. Z80 CPU, 2732 EPROM, latch 74LS273, 2 seven segment displays, 24 LED’s, DIP switch mini speaker. No RAM!

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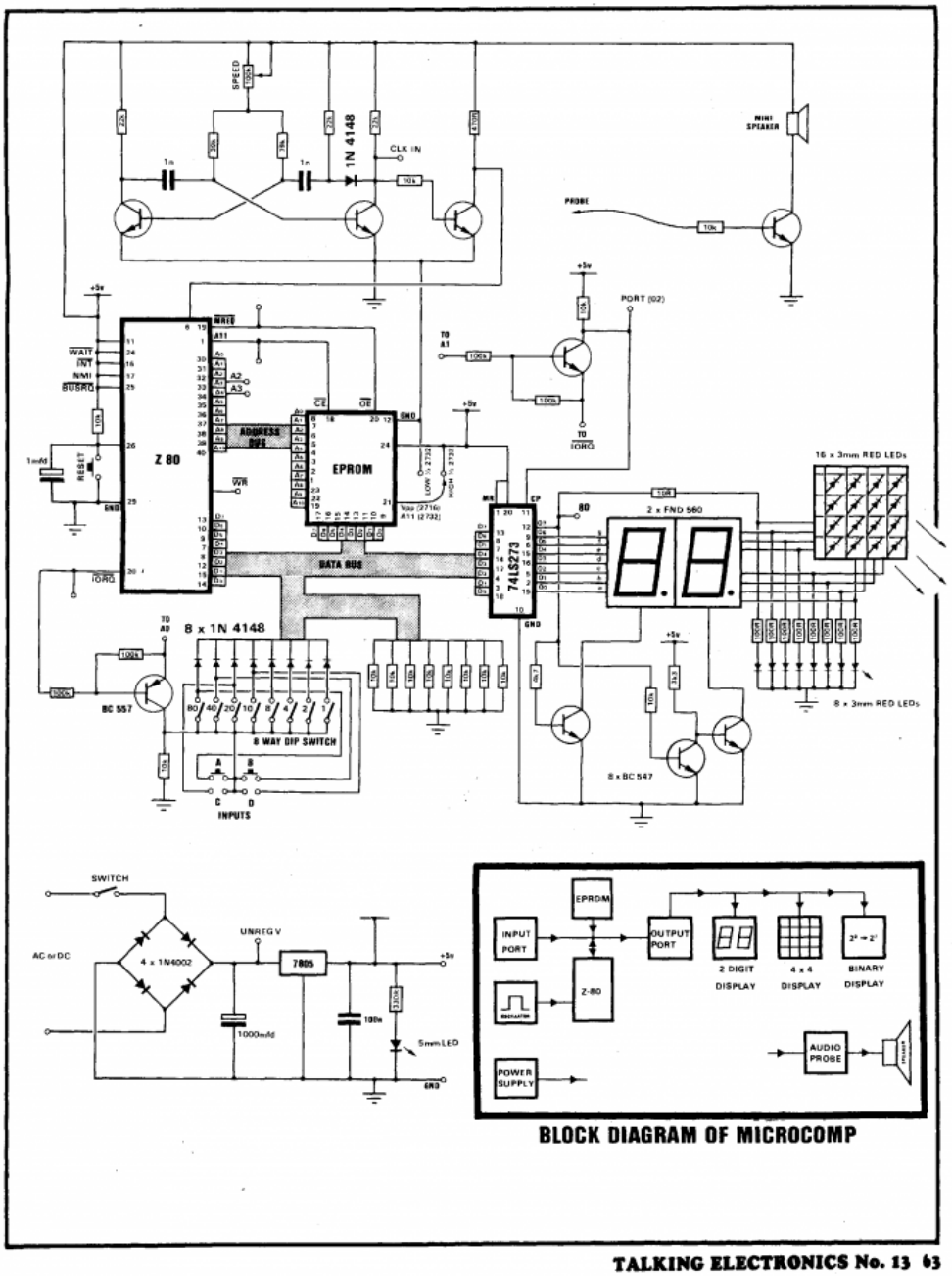


BLOCK DIAGRAM OF MICROCOMP

Check the operation of the switch with a multimeter before inserting it onto the board and solder it in position when it is correct.

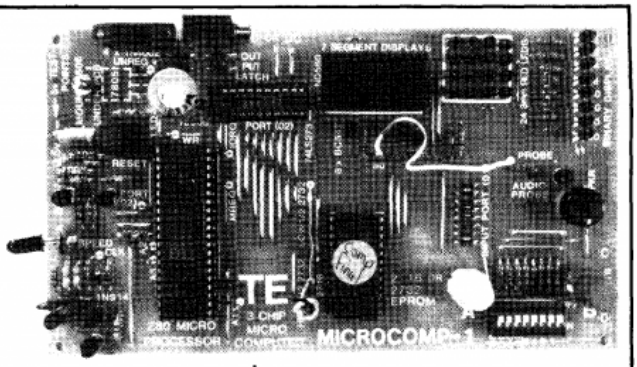
Fit 4 rubber feet to the underside of the board, insert the chips and you are ready for testing.

TESTING

Insert the power plug into the 3.5mm socket and switch the Microcomp ON. The power LED should come on. Make sure all the input switches are OFF. Push button B. The number 99 should appear on the displays. Press button A and the numbers will increment. Push button B and they will decrement. This is a fairly good indication that everything is working perfectly and you can go on to learning about programming.

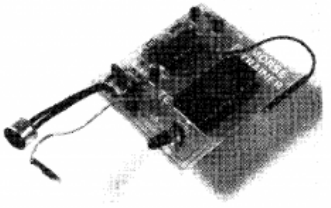
If you do not get 99 on the displays you may have a fault in the system. This will require you going through a trouble-shooting procedure as covered on P. 66.

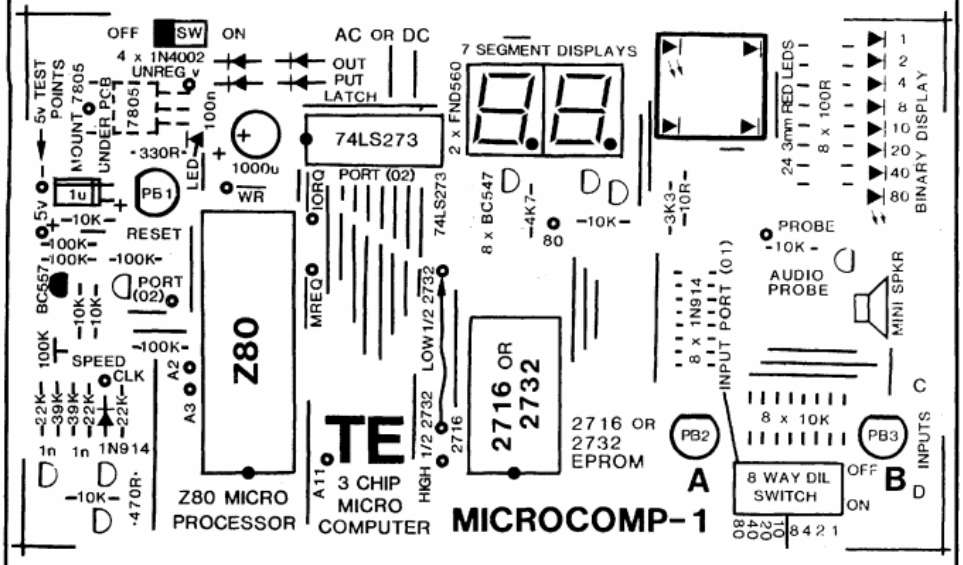
Consider yourself lucky that the computer doesn't work. You will gain a lot by trouble-shooting it yourself and gain experience in finding the fault.



Note the LED used as a knob for the SPEED control. SGS transistors don't work very well in the clock circuit. They freeze at high speed. To prevent this, use 47k base resistors.

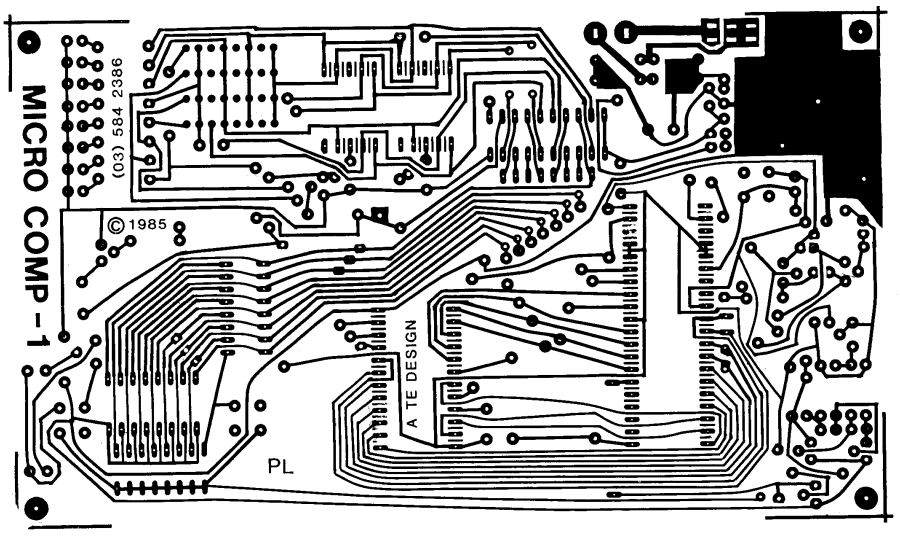
The MORSE TRAINER is our first add-on and will be presented as soon as the programs in the lower half of the 2732 have been covered.





The overlay for the Microcomp shows all the component locations and link positions. The large donuts indicate the positions for the matrix pins. A wander lead selects HIGH/LOW 2732, while another is taken from the AUDIO PROBE input pin.

TALKING ELECTRONICS No. 13 65



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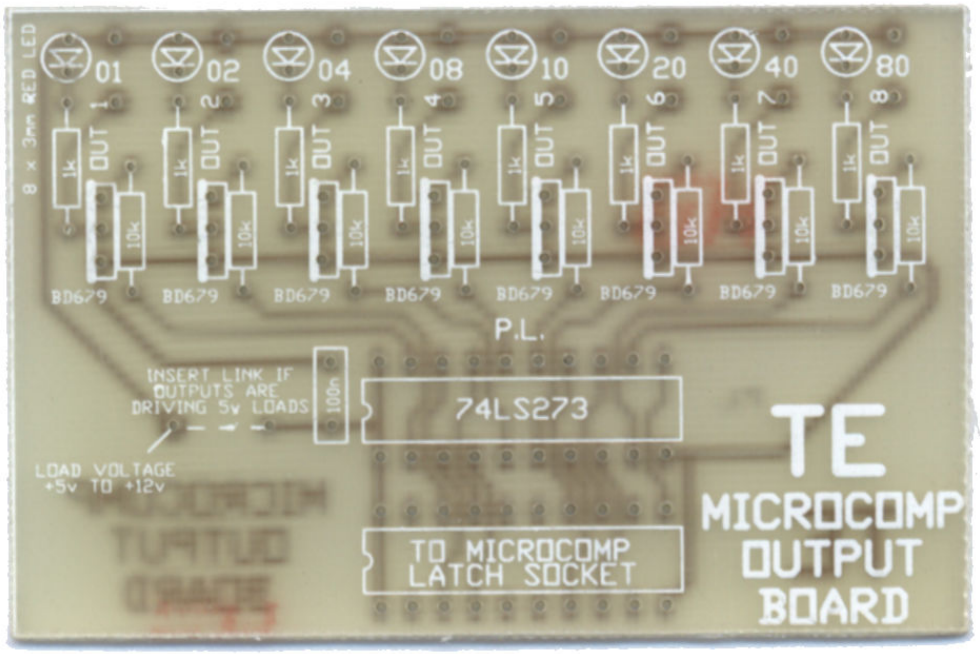

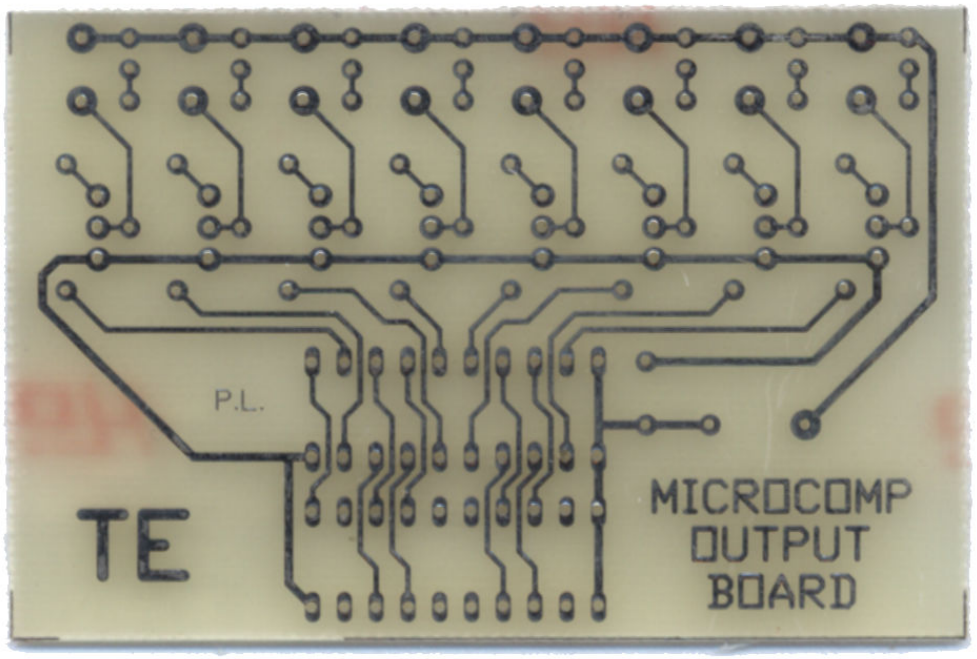

TE Microcomp master ROM binary

TE Microcomp 1 ROM binary

All the pages of the Talking Electronics issue 13 and 14 in PDF format

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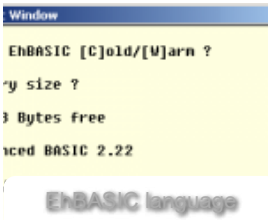

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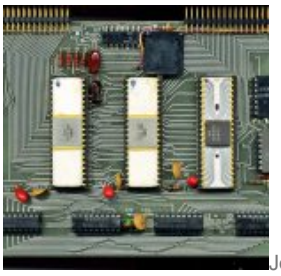

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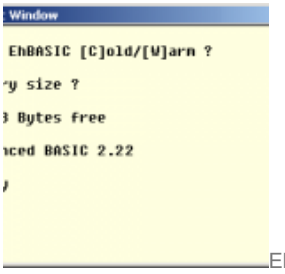

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