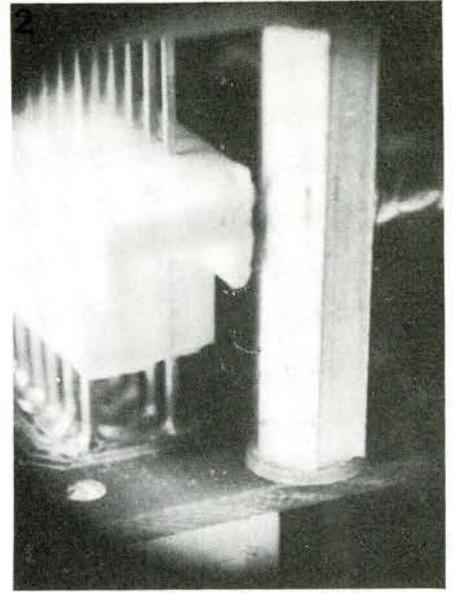
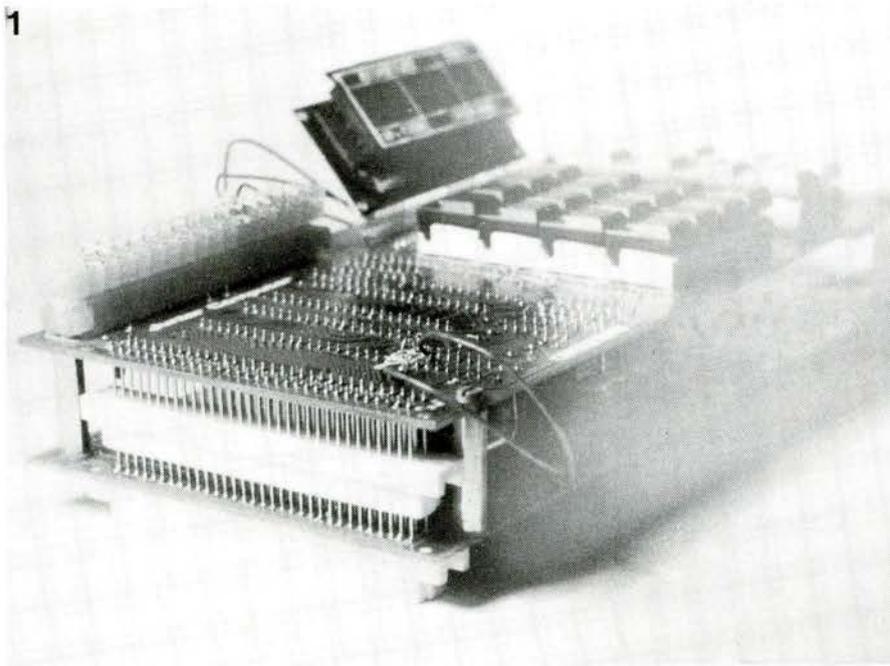


82140

the Elektor connection



a link between the Junior and interface board



As the old saying goes, 'it's simple, when you know how', most of the really good ideas and inventions over the last century have been simple and so it is with the solution to an old problem outlined in this article. The idea is so straightforward that all our design staff were astonished! A low cost electronic connection between the main J.C. boards and the interface!

Once more an active and resourceful reader has come up with a relatively brilliant idea!

F. Richter

Despite all the solutions presented by our design staff in the May 1981 issue, and in the Junior Book 3, problems still existed.

The main disadvantages of the original system were:

- Too costly.
- Relocation of the interface board presented problems.
- The bus board for the interface was a relatively long distance away from the main construction.
- The way the bus board was designed could easily lead to short circuits.

Without doubt the solution presented by our reader gets over most if not all these problems.

Figure 1 clearly illustrates how it is done. Female connectors with wrap-around pins are used. One multiway connector also serves as the physical foundations of the sandwich type construction.

First of all a connector is mounted onto the interface board and obviously soldered into place. The wrap-around pins protruding from the copper side are then plugged into a second multiway connector, which in turn has been mounted onto the main base board.

Could it be simpler?

The distance between the boards should not be less than 1.5 cm otherwise some of the components will snag the construction. The tallest components to watch out for are switches S1 and S2. And please remember that the quartz crystal must be remounted at 90 degrees to the vertical (flat), over IC6.

When screwing the 'sandwich' together some of the plastic surrounds of the connectors (at each end), may get in the way of the spacers. This problem can be solved very easily by sawing off a small piece of the connector (see figure 2).

By the way, we certainly don't have any objection against receiving more of these ingenious ideas from our readers. Get your thinking caps on!