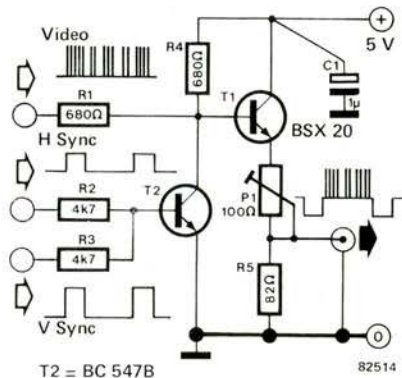


## high performance video mixer

Terminals, (the interfaces between computers and video screens), have to output two synchronisation signals in addition to the actual video signal. The Elekterminal also contains a video mixer which combines the two signals into the single video display control signal. The H and V sync signal control the horizontal and the vertical deflections of the electron beam, respectively, while the video signal incorporates the picture information. All three signals are combined in the mixing stage around T1 and T2.



T2 mixes the sync signal; the transistor forms a NOR gate together with R2 and R3. Transistor T1 operates as an emitter follower. P1 sets the amplitude of the output signal, enabling the circuit to be adapted to any type of monitor and/or TV set. A monitor will have to be used, should your TV not have a video input socket. The video combiner is suitable for bandwidths up to 25 MHz.