

At this time, the 7T11 is not compatible with the 7854 in the STORE mode. There is a holdoff signal missing in the 7T11, which prevents the 7854 from ending ACQUIRE.

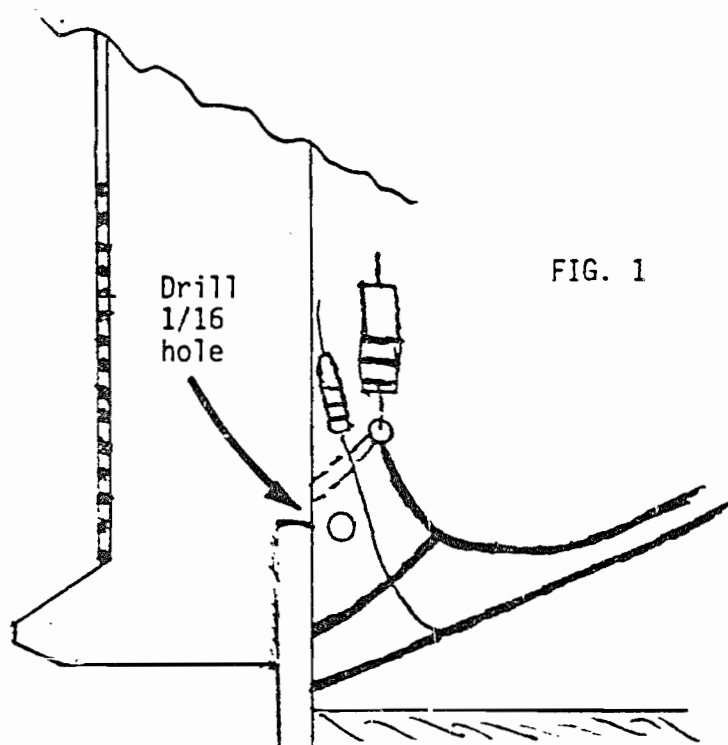
The 7854 can be manually operated by pressing STOP (after at least one 7T11 scan has elapsed). However, other modes, such as AVERAGE will not function. The 7T11 works normally in the SCOPE mode.

We are working on a production mod to make the 7T11 fully compatible with the 7854, but this will take time, and may not be retrofittable with older 7T11's. Meanwhile, here's an unofficial mod that makes the 7T11 compatible with the 7854's waveform acquisition modes, when it is used in the sequential and random sampling modes only (no real-time sampling). With this abbreviated mod there may be increased noise in the digitizing mode.

NOTE: It is the customers responsibility to install this mod. Tektronix offers this mod information only to assist customers who already have 7T11 systems, and would like to enhance their performance by using the 7854. The standard 7T11 is not represented as being compatible with the 7854's waveform acquisition modes.

PROCEDURE

- 1) Remove both side panels from the 7T11. On the L.H. side, bottom, rear, locate the area on the EC board where a 1/16" hole will be drilled (Fig. 1). Hold the board up to the light to make sure the hole location will clear all circuit runs. Drill the hole by hand by using a pin vice.



L.H. Side. Bottom Rear.

- 2) Build up the new components on the Analog Logic board as shown in Figs. 2 and 3.
- 3) Remove C628 (Figs. 2 and 3).
- 4) Run a wire from the collector of the added Transistor (151-0220-00) around the perimeter of the 7T11, through the hole drilled in Step 1 (see Fig. 4).
- 5) On the rear of the 7T11 (bottom left, looking from the rear) locate Pin B4 (fourth one up from bottom left). Mark location of pin B4 on the plastic guide (Fig. 5).
6. Remove the plastic guide (four screws) and cut a semicircle with a small rattail file in line with the mark placed in Step 5 (Fig. 5).

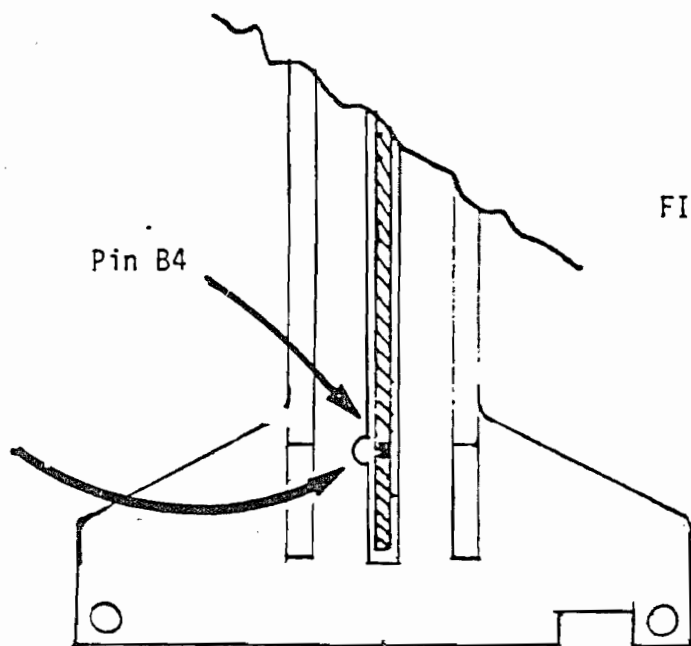


FIG. 5

Rear of Interface Connector

- 7) Mask the pin contact area to within 1mm of the inboard edges to protect against solder flowing onto the contact area (Fig. 6). Cut the added wire to length and solder it to the exposed 1mm section of Pin B4. Use a very small-tipped iron with minimum heat and minimum solder.

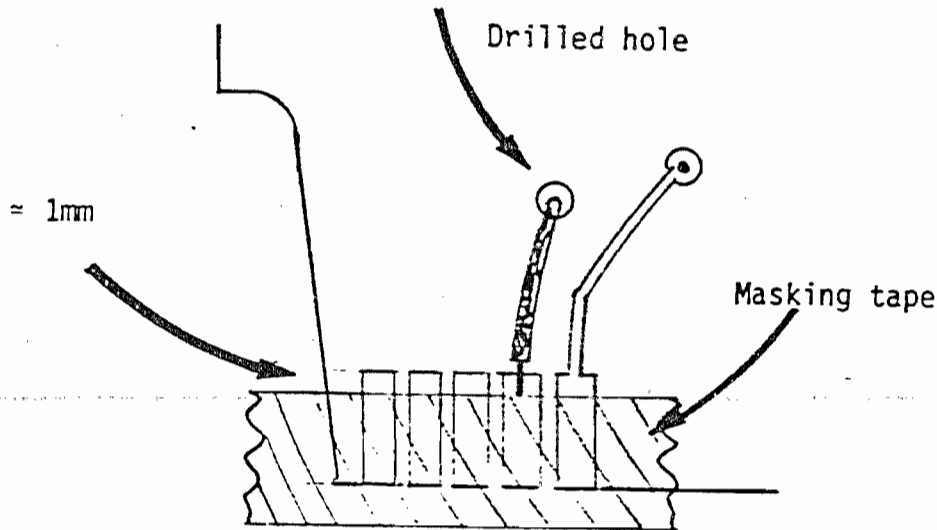


Fig. 6

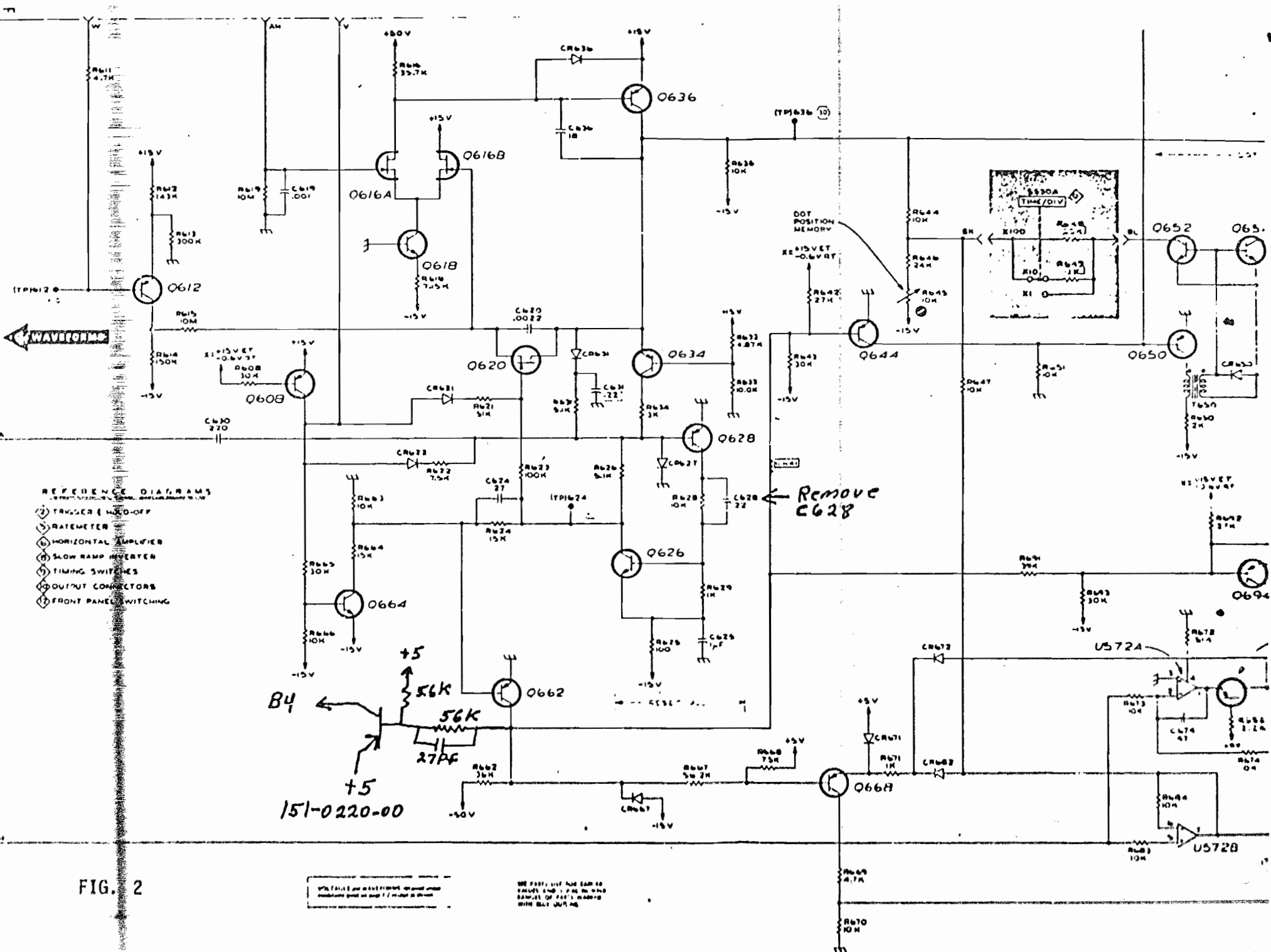
- 8) Remove the masking tape, clean up the area with flux remover or alcohol, and replace the plastic guide.

CAUTION

Be very careful when performing Steps 7 and 8. Too much heat or solder could damage the contact area and necessitate replacement of the E C Board.

Responsibility

It is the users responsibility to follow good engineering practice, including the observance of all applicable safety procedures in installing testing and using these modifications. While the suggested changes are believed to be suitable for their intended use, Tektronix does not guarantee their performance or warrant that they are useful for any particular purpose. Finally, because Tektronix has no control over the installation or use of modifications to users equipment, it follows that Tektronix can accept no responsibility whatsoever for any claim or loss arising either directly or consequently from such modification or use.



REFERENCE DIAGRAMS

- ⊕ TRIGGER (W/O-OFF)
- ⊕ RATEMETER
- ⊕ HORIZONTAL AMPLIFIER
- ⊕ SLOW RAMP INVERTER
- ⊕ TIMING SWITCHES
- ⊕ OUTPUT CONNECTORS
- ⊕ FRONT PANEL SWITCHING

Handwritten notes and annotations:

- 56K
- 56K
- 27PF
- +5
- +5
- 151-0220-00
- B4
- Remove C628

FIG. 2

NOTE: ALL PARTS AND COMPONENTS ARE SHOWN AS SUPPLIED BY THE MANUFACTURER. THE PARTS LIST IS SUBJECT TO CHANGE WITHOUT NOTICE.

7-11

0-83

1-35

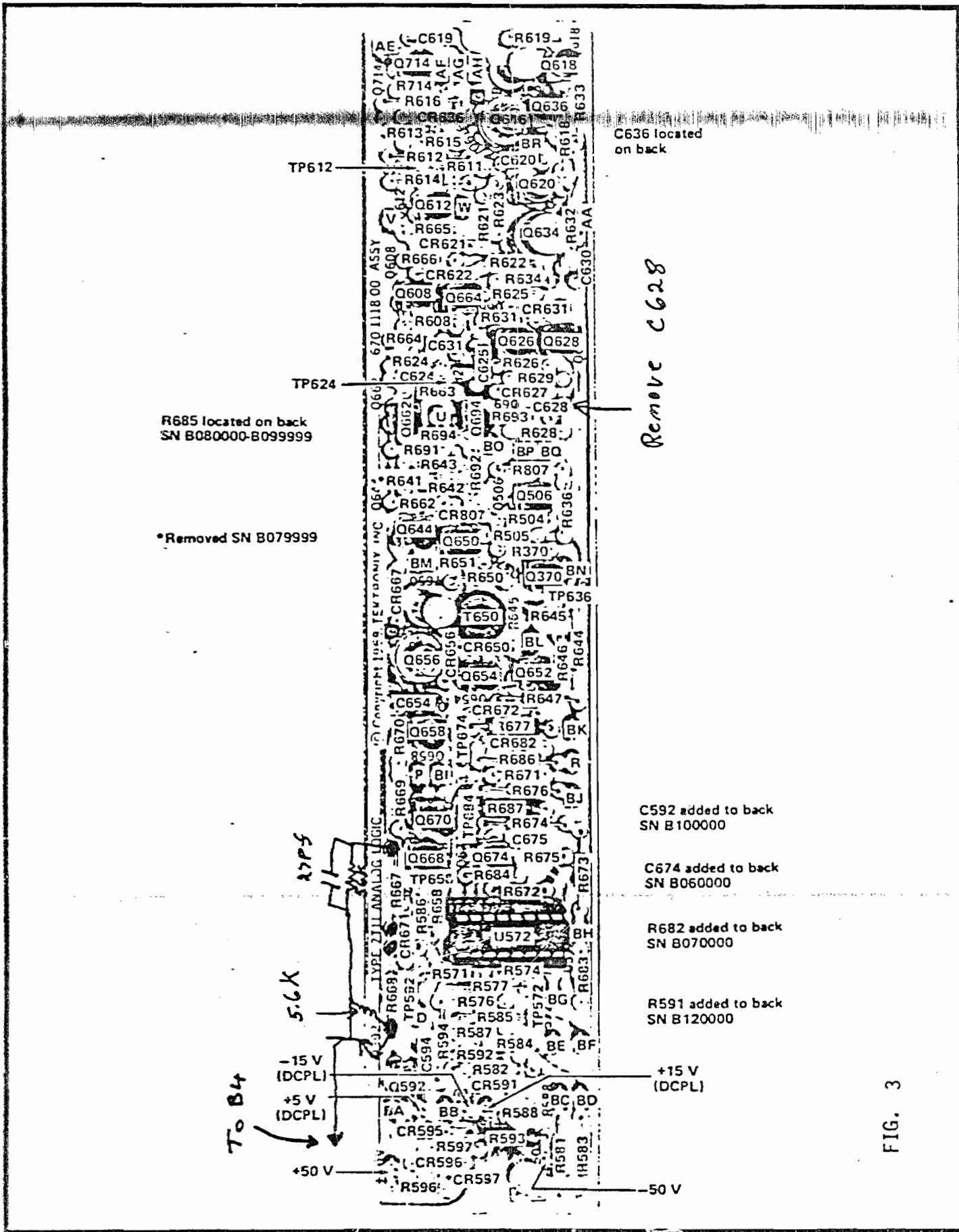


Fig. 4-9. Analog Logic Circuit Board (front view) showing location of components and pin identification.

FIG. 3

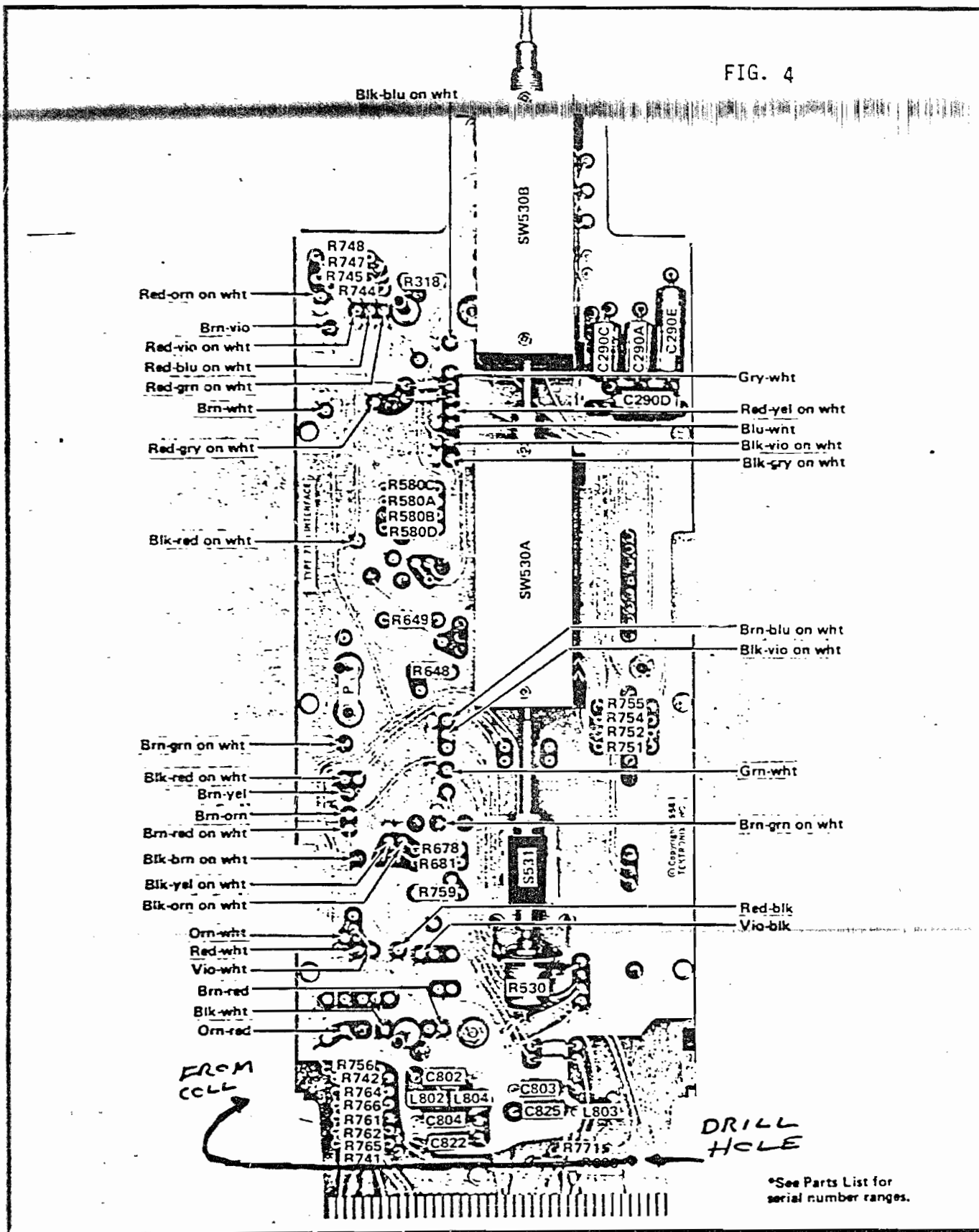


Fig. 4-10. Interface Board (left side) showing location of components and wire color-coding.

Look 15 19