

SWITCHING PULSE GENERATOR GE2/583

**Introduction**

The GE2/583 accepts TTL level line-trigger pulses coincident with lines 14 to 21 and 327 to 334. Any combination of these lines can be selected by plug-in links on the printed-wiring card. An output bar is produced which corresponds closely to the active-line period of each selected line.

Two auxiliary trigger inputs enable the unit to be triggered by a 2 volts p-p positive- or negative-going pulse. The auxiliary trigger pulse must be coincident with the leading edge of line sync.

The unit is mounted on a CH1/43A chassis with index pegs in positions 1, 3 and 8.

**General Specification**

*Inputs*

Line-trigger Pulses TTL level  
 Auxiliary Trigger Pulses 2 volts p-p positive-going at PLA3 or 2 volts p-p negative-going at PLA2

Bar Output 0.7 volt p-p positive-going or 2 volts p-p negative-going  
 (The required signal is pre-selected by means of a plug-in link on the printed wiring card).

Bar Period Start:  $9 \pm 0.2 \mu s$  after the leading edge of line sync.  
 Finish:  $1.2 \pm 0.2 \mu s$  before the leading edge of line sync.

Power Supply 12 volts d.c., 40 mA

**Circuit Description**

Fig. 1 is a photograph of the GE2/583 which shows the plug-in links set to select lines 17 and 330 and the output link set to give a bar amplitude of 0.7V p-p positive-going. Since this photograph was taken lines 17 and 330 have been allocated for TELETEXT use and are not now available for test line insertion.

Fig. 2 is a circuit diagram of the unit.

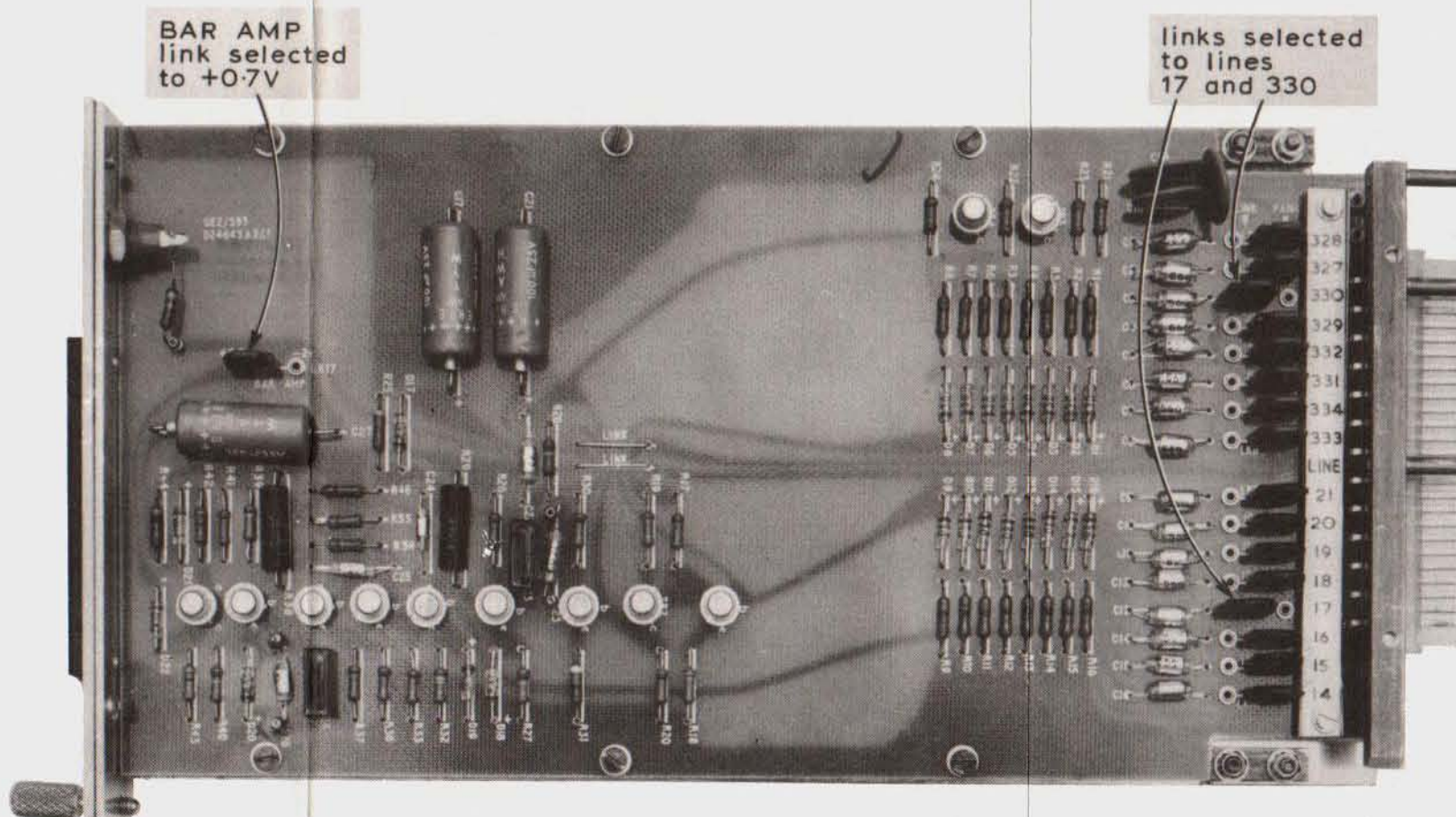


Fig. 1 GE2/583 Photograph Shows Positions of Plug-in Links



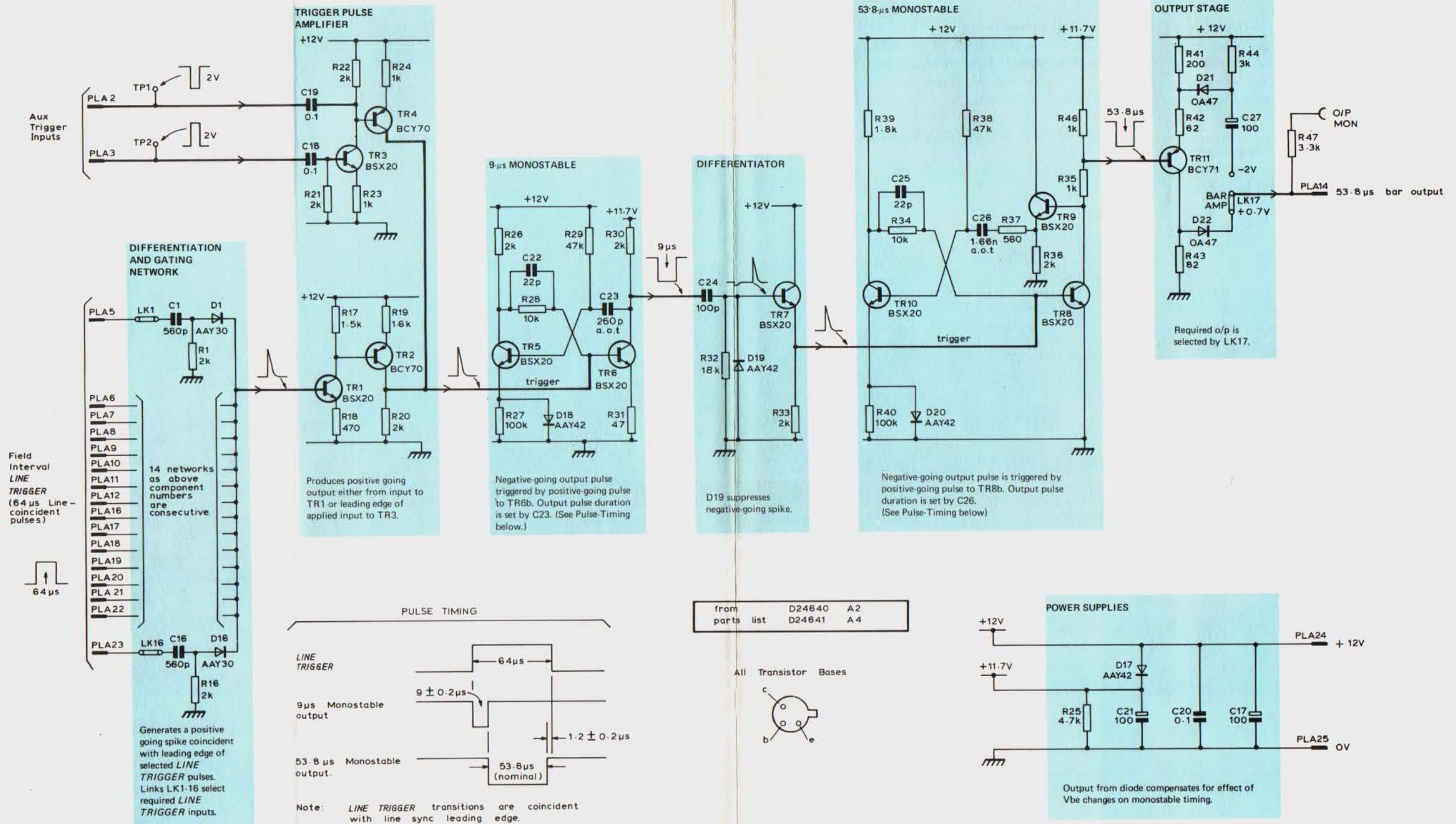


Fig. 2 GE2/583 Circuit Diagram