

## POST-FIELD PULSE GENERATOR GE2/531

### Introduction

The GE2/531 accepts a feed of negative-going field-frequency pulses and a feed of inverted mixed-sync pulses; it provides a positive-going field-frequency output signal which is used as a blanking waveform in an associated parent unit<sup>1</sup>. The GE2/531 is constructed on a printed-wiring card which plugs into a socket on the parent unit. Power supplies at -24 volts and -12 volts are required.

### Circuit Description

The circuit diagram is given in Fig. 1. The field-frequency input signal is applied, via a differentiating circuit and a diode clipper which removes the negative-going portion of the waveform, to TR1. Transistors TR1 and TR2 form a monostable multivibrator and, when TR1 is

triggered into conduction by a positive-going spike, TR2 is cut off and the positive-going transition appearing at its collector is applied to the output of the unit via emitter-follower TR3. The time constant of the circuit is such that the pulse from TR2 continues for 6 lines after field blanking. Fine control of the pulse duration is provided by the preset resistor RV1.

Inverted mixed sync pulses are applied via diode D2 to the base of TR2. These pulses do not affect the operation of the multivibrator, their function is to ensure that the stage reverts to its stable state during a line-sync period and not during the active line period.

### References to Typical Associated Equipment

1. Waveform Suppression Unit UN1/556

TES 4/69

*See overleaf for Fig. 1*

from DA 15102 iss 1  
parts list DA 15103

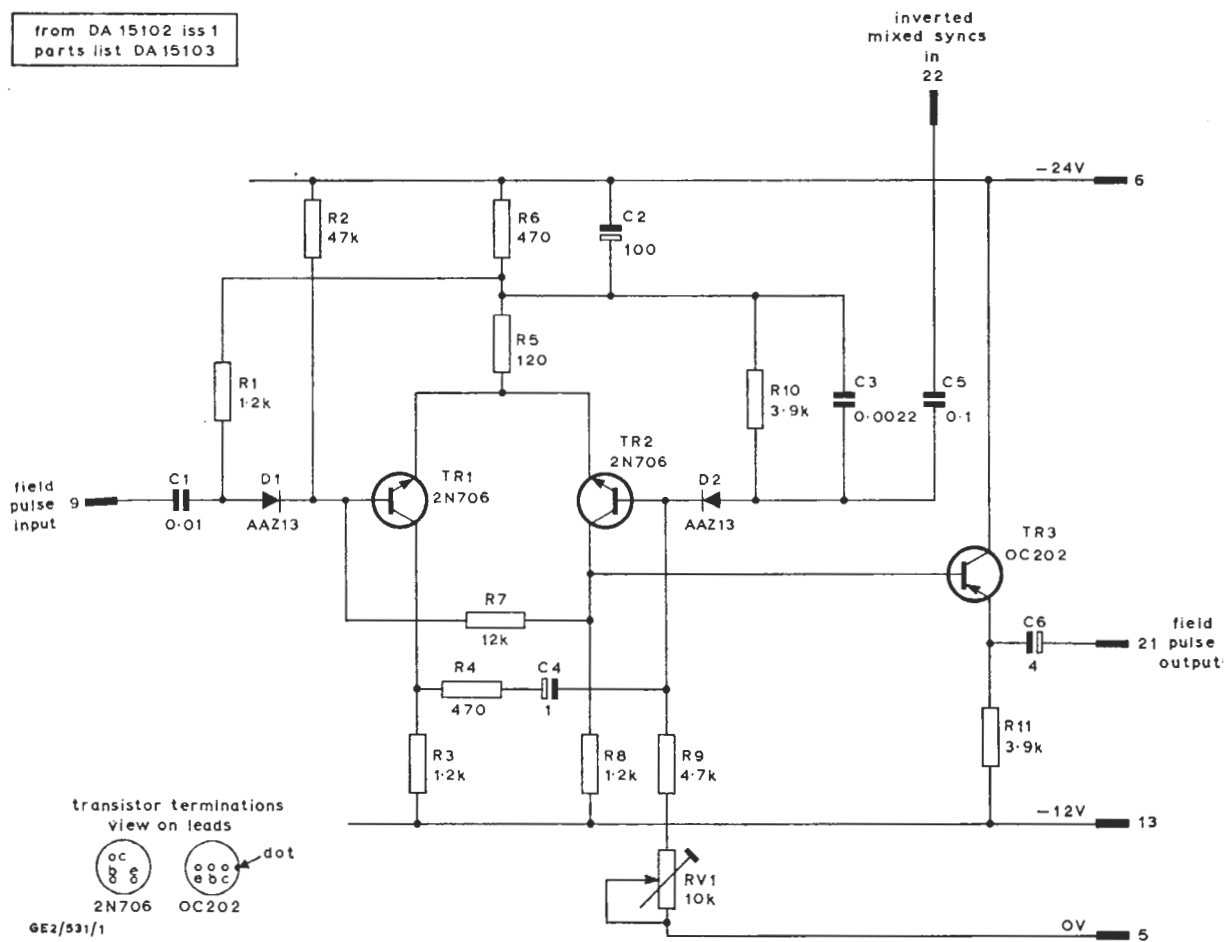


Fig. 1 Circuit of the Post-field Pulse Generator GE2/531