CUE DOT INSERTION UNIT UN9/563

Introduction

The UN9/563 forms part of a stabilising amplifier[1] and accepts auxiliary-blanking and cue-dot signals[2]. From the auxiliary-blanking input (labelled *Aux. Gate* in the circuit) it provides a pulse which is fed to the sync-gating stage of the stabilising amplifier. From the cue-dot input it provides a cue-dot signal which is fed to the sync-adding stage of the stabilising amplifier where it is used to fill the 'hole' provided by the blanking pulse. The effect of applying auxiliary-blanking and cue-dot signals to the stabilising amplifier is to introduce a white-black-white combination of vertical bars in a small area at the top left-hand side of the picture.

The UN9/563 is constructed on a printed-wiring board fitted with a 25-way ISEP connector. A circuit diagram is given in Fig. 1. Power supplies at +12 volts and −4 volts are derived from the parent unit.

General Specification

Auxiliary Blanking Input	2 V p-p, negative-going
Cue Dot Input	0 · 7 V p-p, positive-going
Input Signal Timing	The input signals appear on lines 36 to 43 and 349 to 356 of the television waveform. Both signals start 1·75 μs after the end of line blanking and both have a duration of 1·5 μs.
Auxiliary Blanking Output	2 V p-p, negative-going
Cue Dot Output	0 · 7 V p-p, negative-going

Operating Temperature Range 10°C to 50°C

References to Typical Associated Equipment

1. Sync Pulse Stabilising Amplifier AM18/513 Series
2. Cue Dot Generator GE1/536

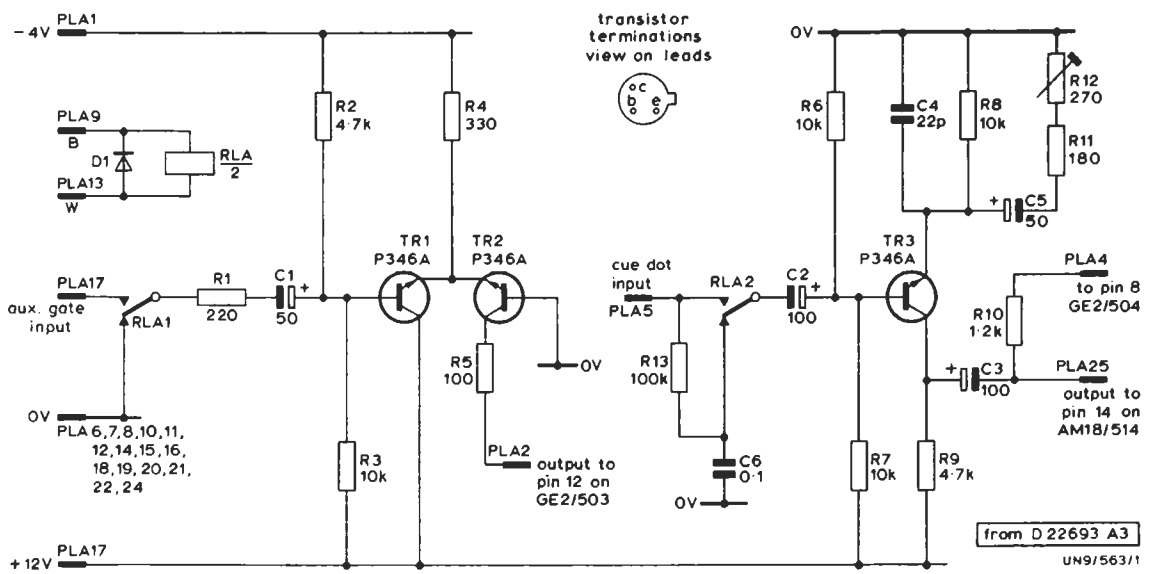

Fig.1 Circuit of Cue Dot Insertion Unit UN9/563

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