Synchronising Generators

Type BD637 for Studio use

Type BD638 for Mobile use

FOR 525 AND 625 LINE SYSTEMS (RMA AND CCIR STANDARDS)

THE SYNCHRONISING GENERATOR provides all the necessary inter-related signals for synchronising a complete television system and for supplying a standard synchronising signal to the outgoing composite waveform.

The unit generates four signals:

(1) Line driving pulses for the cameras, monitors, etc.
(2) Field driving pulses for the cameras, monitors, etc.
(3) System blanking signal containing both line and field blanking.
(4) Composite synchronising signal of standard waveform.

The basic frequency of the system is controlled in any of the following ways:

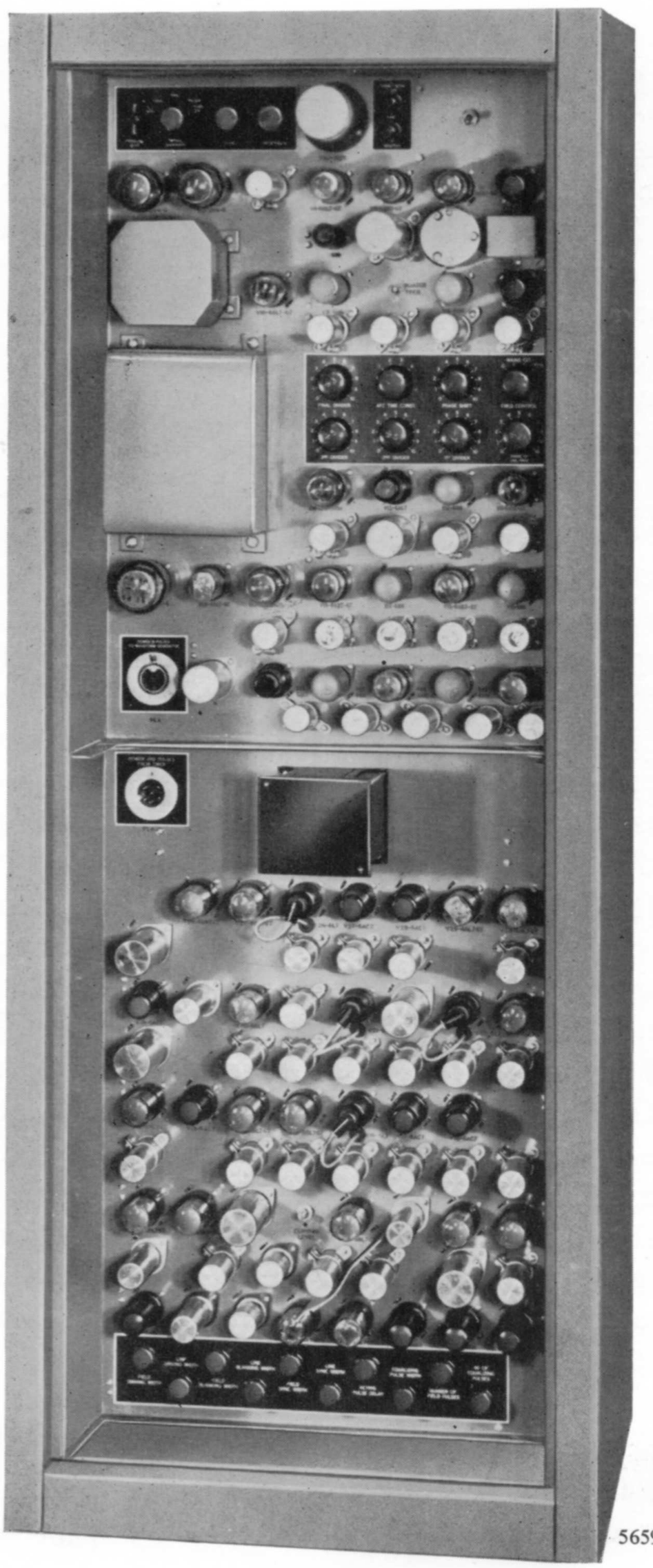
(1) By a 'spongy lock' to the mains frequency.
(2) By a crystal control.
(3) By free running with manual pre-set control.
(4) By an external control such as from a Sync. Generator Locking Unit Type BD 658 (on studio generators only).

In order to keep the weight and size within the limits of easy portability, this apparatus has been divided into two separate units, the Timer and the Waveform Generator. In operation they are connected together by a single multi-core cable.

The studio units are designed for mounting in standard 19 in. cabinets. For mobile use they are built into two suitcase-type housings which can be clipped into shock absorber mountings during transport.

TIMER

This unit generates pulses at twice line frequency (master frequency), line frequency and field frequency. The frequencies are derived by division of the master oscillator frequency. The frequency



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