

## SECTION 17

### 625-LINE WAVEFORM GENERATOR DRIVE UNIT GE1/517

The Drive Unit GE1/517 is used in picture source synchronising equipment (Instruction V.1) to generate, from a crystal oscillator, stable waveforms at twice-line and field frequencies for the 625-line standard. It is similar to a Drive Unit GE1/520.

The GE1/517 and GE1/520 differ in that:

- (a) the GE1/517 cannot be phased automatically
- (b) the GE1/517 has two twice-line frequency outputs which can be phased independently.

The GE1/517 comprises the following units which are mounted in the order given from left to right in a double PN3/23:

Power Supplier PS2/24  
Power Supplier PS2/13F

4·4296875-MHz Oscillator OS2/503

Divider Unit CO2/507

Variable Divider Unit CO2/506 (2 off)

Modulator Unit MD1/501 (2 off)

Field Divider Unit CO2/508

Local Control Unit UN9/525

All these units are described in Instruction V.9 except the Power Suppliers (Instruction G.2) and the UN9/525 (Instruction V.14).

A simplified block diagram of the GE1/517 is shown in Fig. 17.1. The principles of this type of Drive Unit are described in Section 20 of this Instruction.

MJR 9/66

*See overleaf for Fig. 17.1*

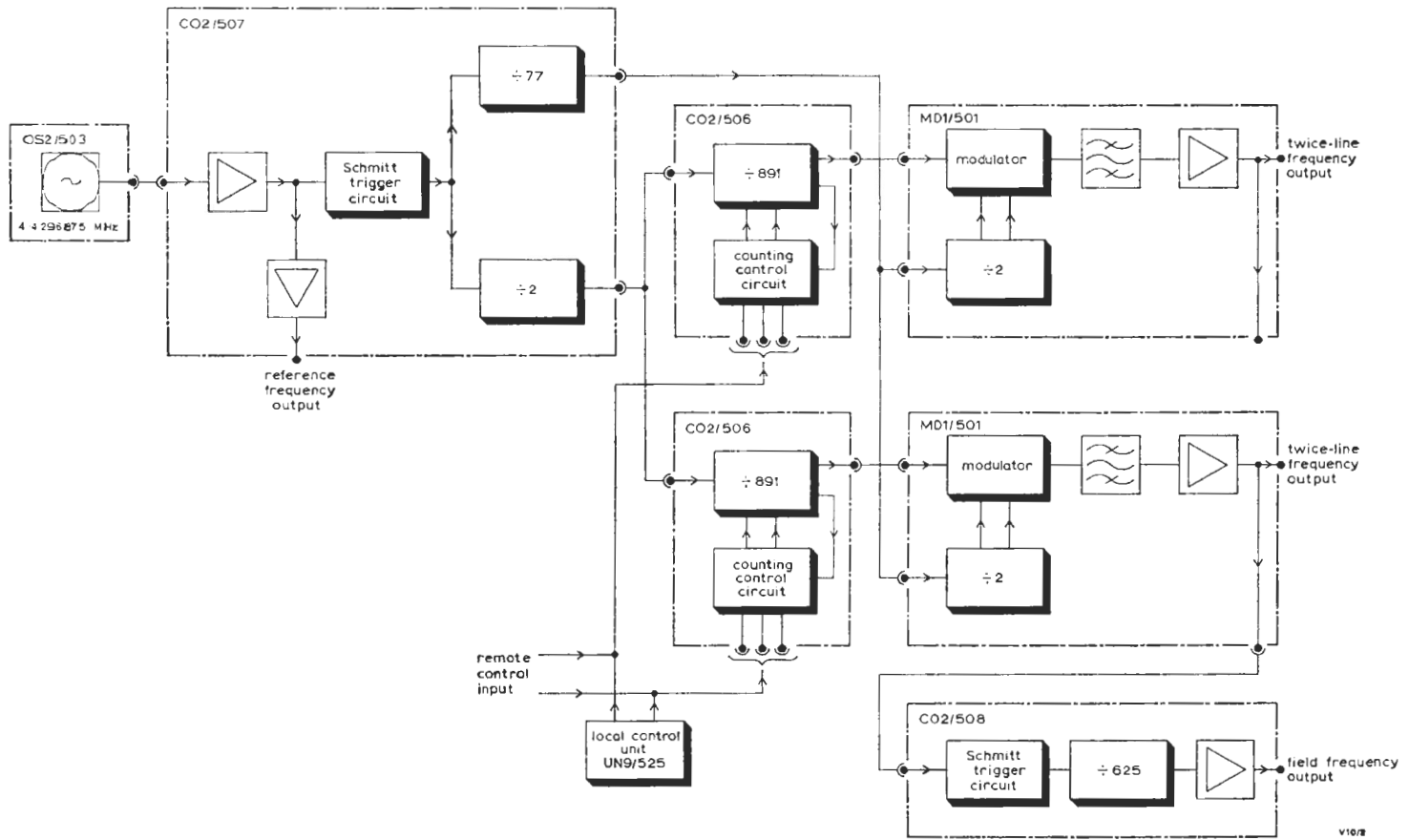


Fig. 17.1 Simplified Block Diagram of the GEI/517