

ROVING PULSE GENERATOR GE2/586

Introduction

The GE2/586 is part of the MN2/514 Automatic Monitor for Line Store Converters and provides *ROVING TEST PULSES* during lines 7 to 14 and 320 to 327 in the 625-line system. The pulses rove along each of these lines and take about 3 seconds to traverse the active line period after which they re-appear at the beginning of the same lines. Inputs of Field Trigger

and Line Trigger pulses, related to the 625-line video input of the parent unit, are required.

Each of the lines swept by the test pulses has an associated Line Erase Trigger pulse output. These pulses have leading edges which are coincident with the leading edges of the relevant line sync pulses. Fig. 1 is a block text diagram of the unit.

General Specification

Logic Levels
 0 = 0V to +0.4V
 1 = +2.4V to +5.0V

Inputs:
Field Trigger Pulses logic 1 about 2 μ s duration

Line Trigger Pulses logic 1 about 0.5 μ s duration.

Outputs:
Roving Pulses +ve going, 0.5V p-p, 20 μ s duration pulses which sweep lines 7 to 14 and 320 to 327 inclusive

Line Erase Trigger Pulses logic 0, 10 μ s duration pulses, leading edges coincident with leading edges of the line sync-pulses of lines 7 to 14 and 320 to 327 inclusive

Construction CH1/43 chassis
 Index positions 1, 2 and 10

Weight 0.36 kg (12.5 oz)

Alignment Procedure

The GE2/586 is adjusted as part of the parent unit.

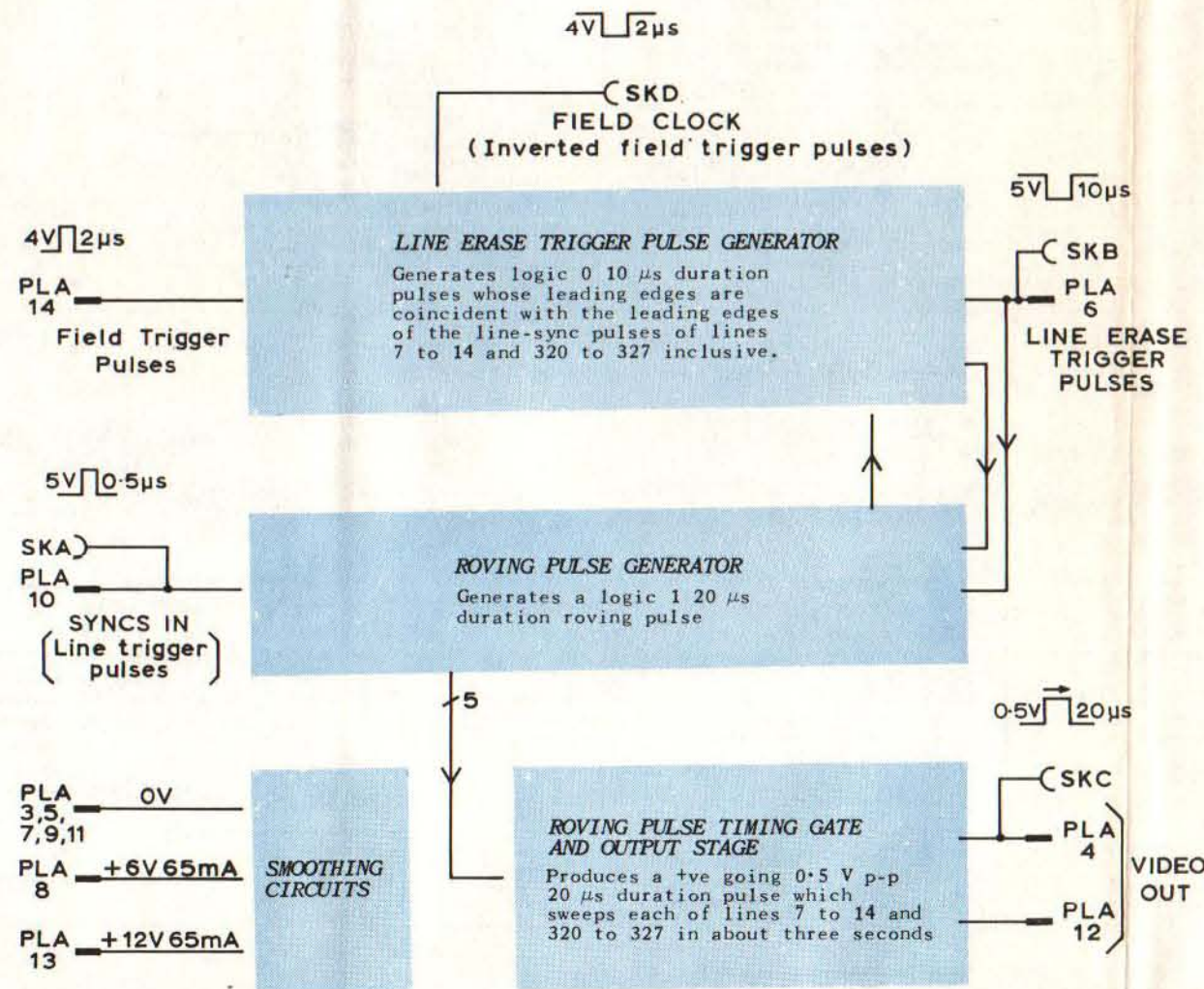


Fig. 1 Block Text Diagram GE2/586

GE2/586/2A
 GE2/586/2B

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The remainder of this Instruction comprises the following:

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| Printed Board Details | Handbooks only |

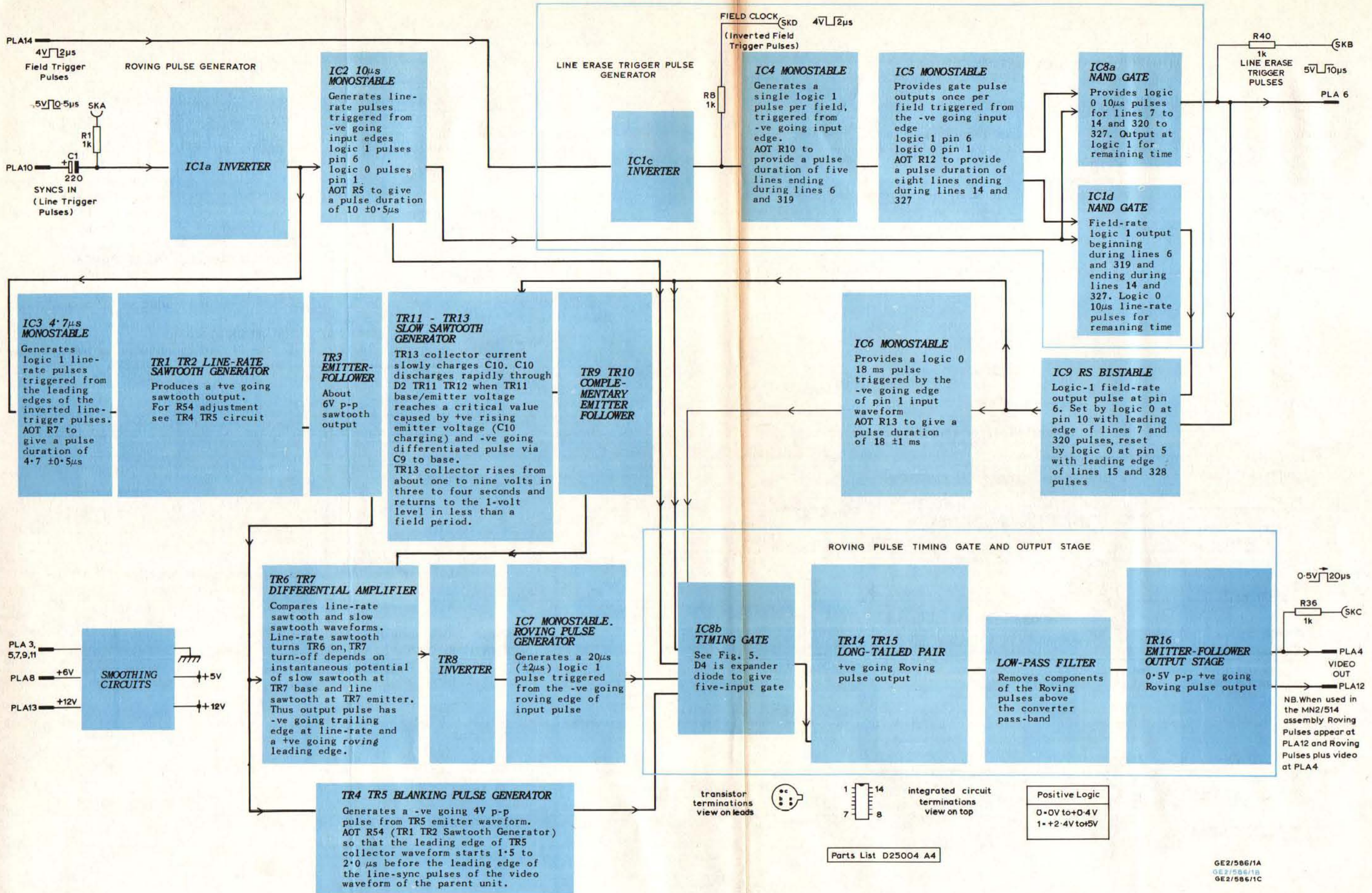


Fig. 2A Block Text Diagram

GE2/586/1A
GE2/586/1B
GE2/586/1C

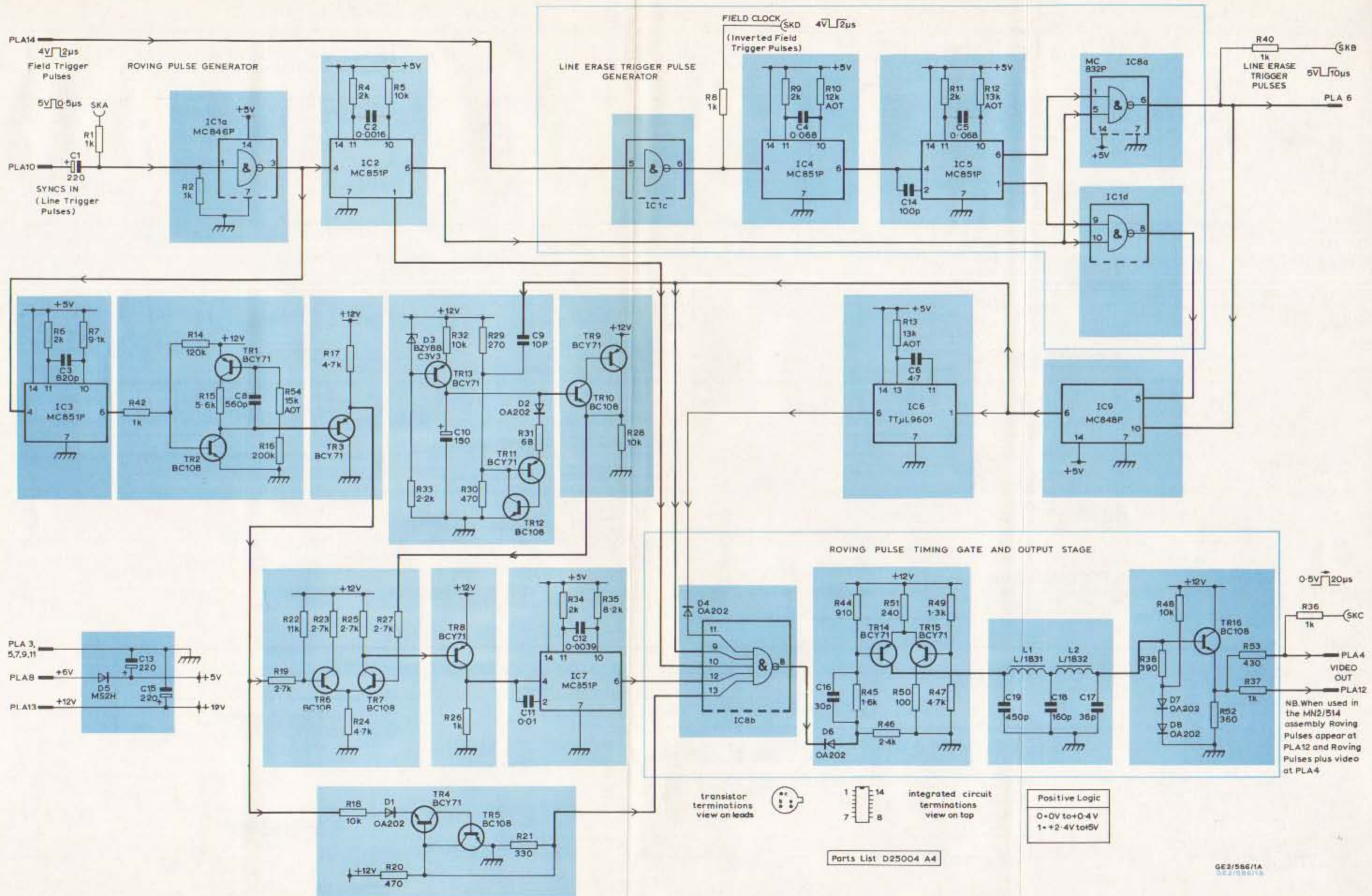


Fig. 2B. Functional Circuit Diagram

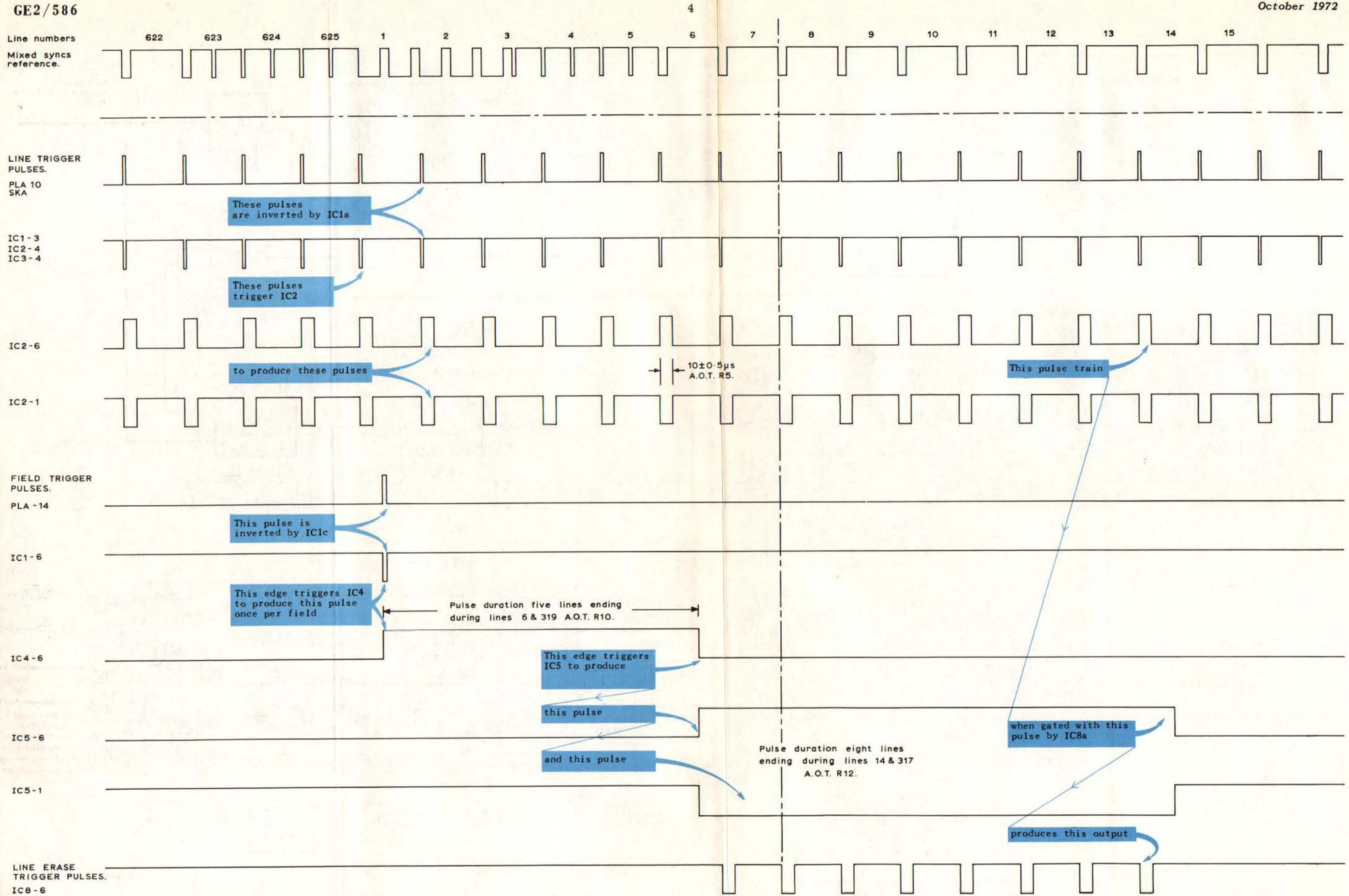
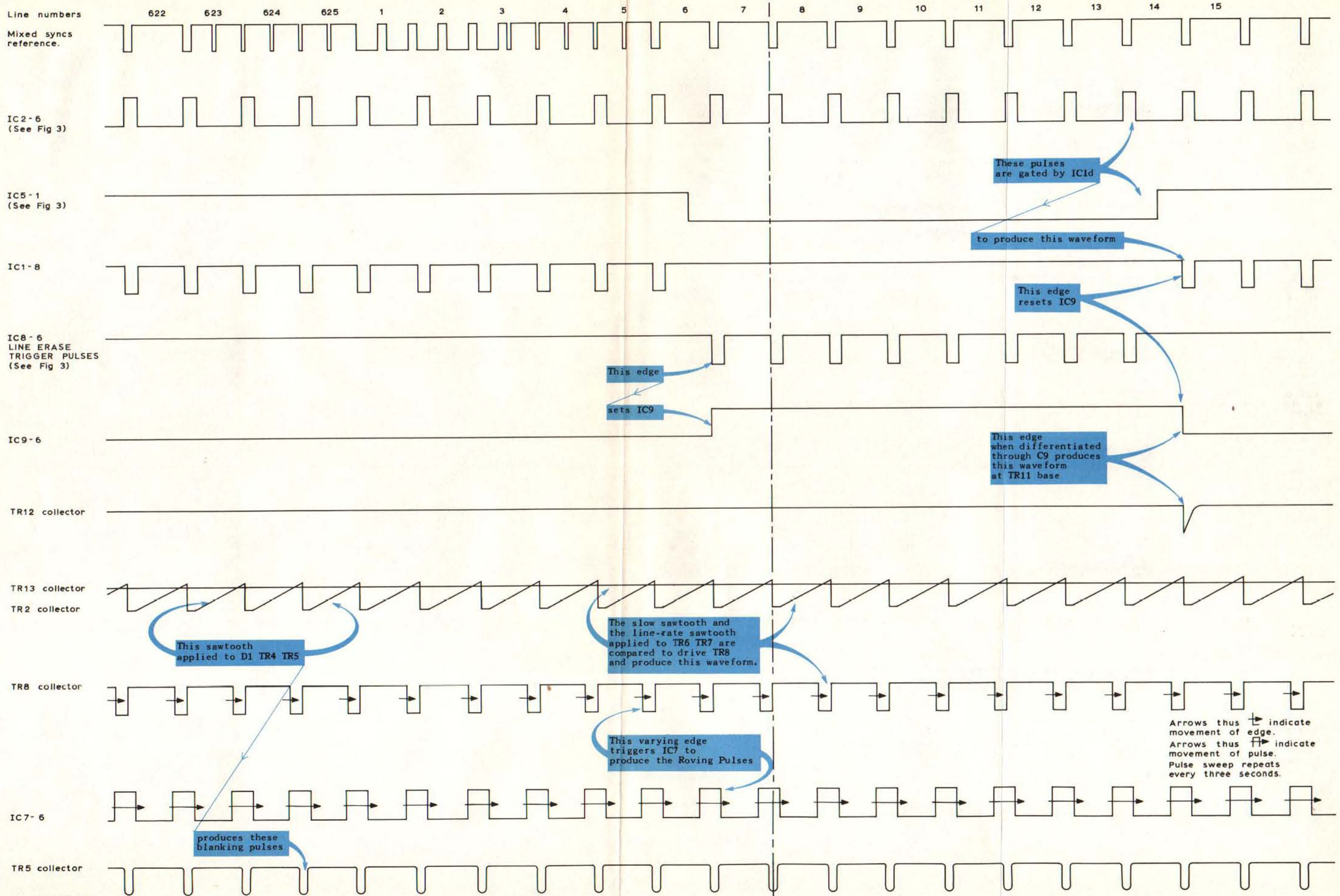


Fig. 3 Line Erase Trigger Pulse Generation GE2/586



GE2/586/7A
GE2/586/7B

Fig. 4 Roving Pulse and Blanking Pulse Generation

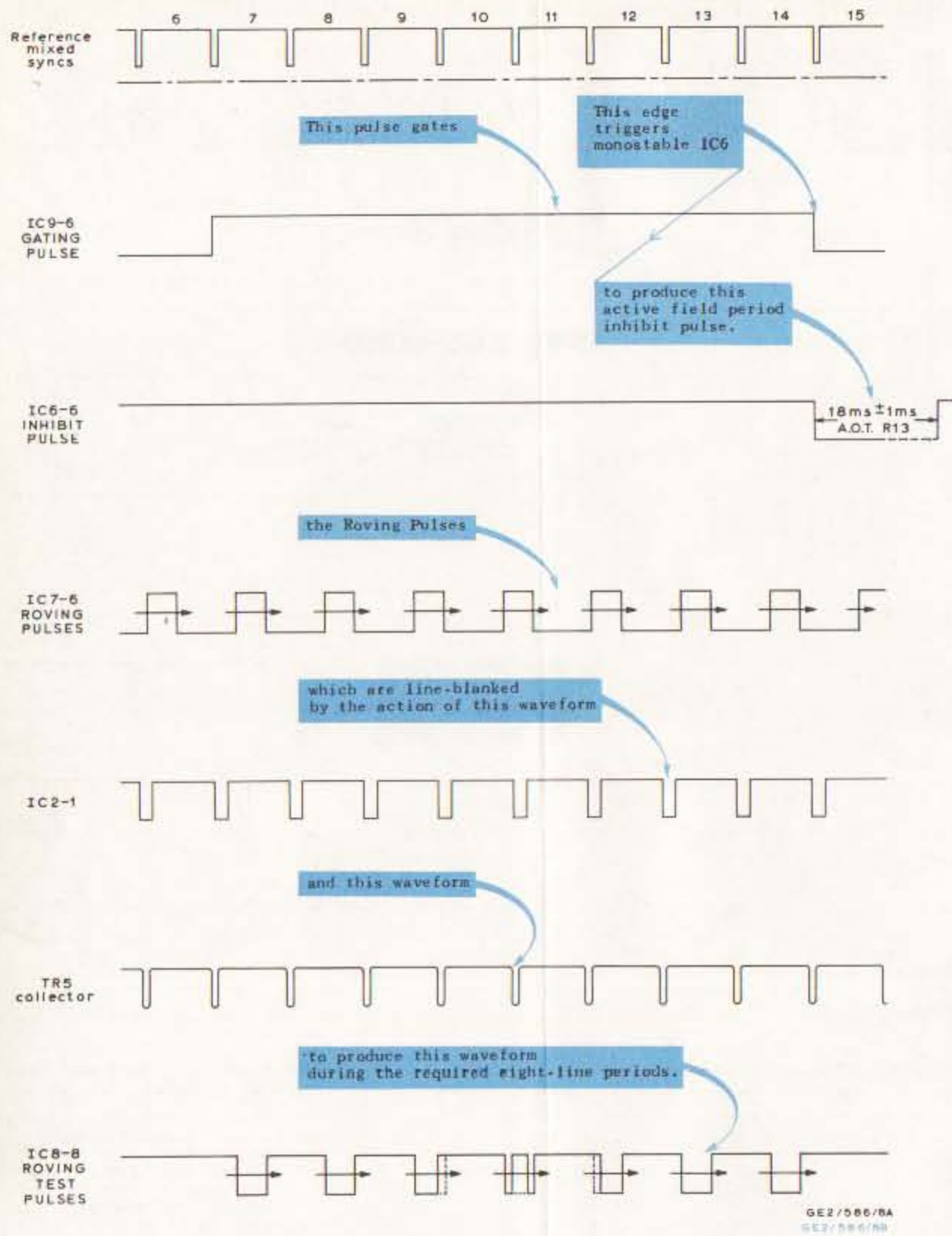


Fig. 5 Roving Test Pulse Generation