September 1971 1 EQ5/519

FINE TRIMMER VARIABLE EQUALISER UNIT EQ5/519

EQ5/519

Introduction

The EQ5/519 provides fine control of gain and of correction for chrominance/luminance gain and delay inequalities on television circuits. It is constructed on a CH1/12A chassis fitted with a modified rear bracket to enable musa plugs to be used.

General Specification

Basic Loss (at 1.f.)

5.9 dB ±0.1 dB

Input and Output Impedances

75 ohms

Available Correction

(in conjunction with a 6 dB amplifier)

L.F. Gain

0 ±1dB in 0.2 dB steps

Gain at 4.43 MHz, w.r.t.

10 kHz

 $0 \pm 10\%$ in 2% steps

Delay at 4.43 MHz, w.r.t.

10 kHz

 0 ± 15 ns in 15 ns steps

General Description

The EQ5/519 consists of 5 sections:—

1. A constant-resistance attenuator with a centreposition loss of 1 dB. Adjustment is by means

- of SC which provides 0.2 dB steps over a range of +1 dB.
- A constant-resistance Bode equaliser for correction of chronimance/luminance gain inequalities. Correction is switched by SB in 2% steps and is zero at the centre position of the switch.
- A constant-resistance phase equaliser for correction of chrominance/luminance delay inequalities. Three degrees of correction, -15ns, zero and +15ns, are provided by SA.
- A printed circuit for an equaliser to correct for input tie line losses². This equaliser may have up to 3 sections with a total basic l.f. loss not exceeding 3 dB.
- An input pad to bring the total basic loss of section 4 to 3·1 dB.

The EQ5/519 is normally supplied with the input pad giving a 3·1·dB loss and with the equaliser of section 4 unequipped but with straps across Ro. The combined 1.f. loss of sections 1, 2 and 3 with the switches in the central positions is 2·8 dB.

Maintenance

Maintenance is not required.

Reference

- 1. Designs Department SpecificationNo.6.140(68)
- Designs Department Technical Memorandum No. 8.255(68)

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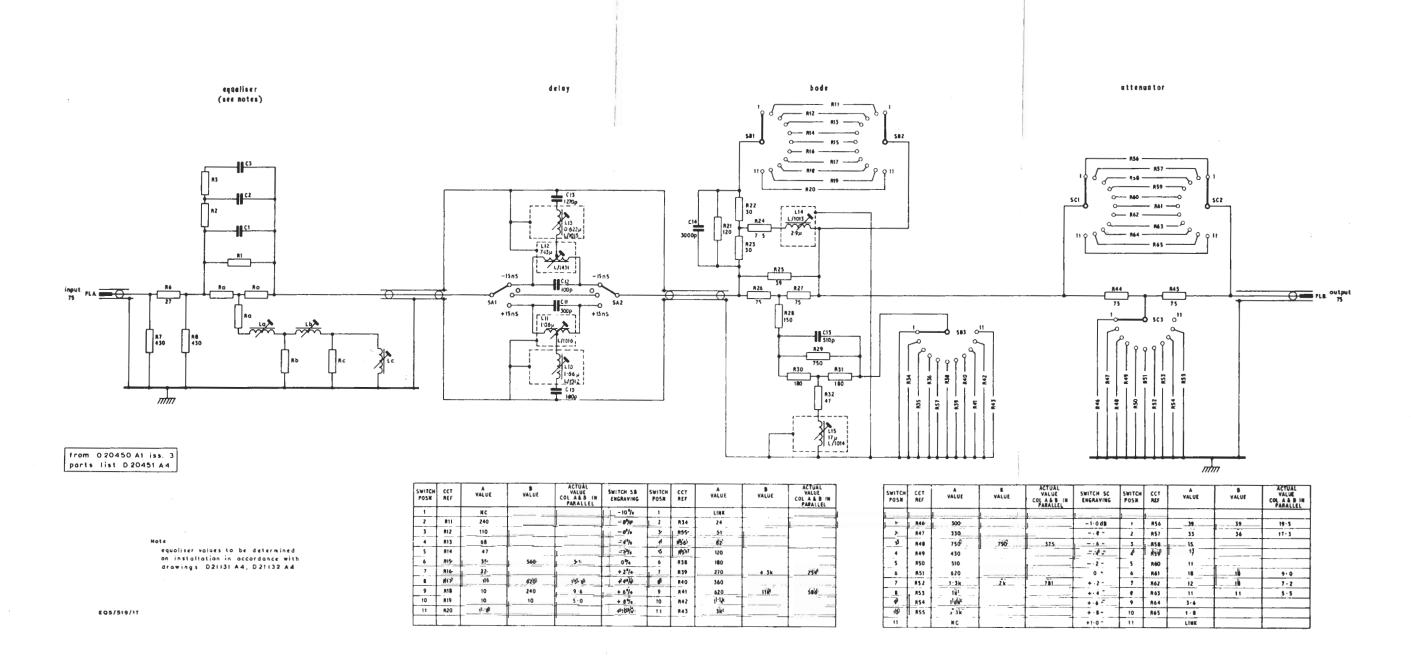


Fig. 1 Circuit of the Variable Equaliser EQ5/519

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