

COMPONENTS . . .

UNIT "B" FRONT PANEL

NOTE: All front panel controls are numbered consecutively, following on from UNIT "A", but internal sub-assemblies have individual component numbering.

Potentiometers

- VR18 100k Ω carbon linear
- VR19 100k Ω carbon linear
- VR20 25k Ω wirewound, 3in. 25W instrument potentiometer. (G. W. Smith & Co. (Radio) Ltd., 3 Lisle Street, London, W.C.2)

Switches

- S7 Miniature push button, push to make, one pole
- S8 Toggle, single pole changeover
- S9 4 pole, 3 way rotary
- S10 2 pole, 6 way rotary

Sockets

- 5 red, 3 black, 5 blue, 4 yellow, 4 white, and 2 green

Knobs

- One Bulgin K403, 2 $\frac{3}{8}$ in knob with 3in skirt.
- Three Radiospares type PK 1 $\frac{1}{2}$ in knobs with pointers

Meter

- M1 "Sew" MR85P, 100-0-100 μ A, internal resistance 1,000 Ω

Miscellaneous

- Plastic laminate (thick) for front panel, 1 off, 17 $\frac{3}{8}$ in \times 8 $\frac{3}{8}$ in. Rub-on dial transfers and letters, black (Radiospares)

UNIT "B" MASTER POTENTIOMETER

Resistors

- R1 200 Ω R3 47 Ω R5 820 Ω
 - R2 820 Ω R4 47 Ω R6 200 Ω
- All 5%, $\frac{1}{2}$ W carbon film or metal oxide

Pre-set potentiometers

- VR1-VR4 100 Ω wirewound (4 off) panel mounting type

Miscellaneous

- 16 s.w.g. aluminium sheet 6in \times 4in. Tag strip with three tags.

UNIT "B" READOUT METER

Resistors

- R1 82k Ω 10% R3 7.5k Ω 5% All $\frac{1}{2}$ W, carbon composition
- R2 22k Ω 10% R4 1.2k Ω 10%

Pre-set potentiometers

- VR1 22k Ω All miniature horizontal mounting skeleton construction
- VR2 10k Ω
- VR3 2.2k Ω
- VR4 1k Ω

Meter protection diodes

- D1, D2 OC71 or similar "inverted" germanium transistor (2 off)

Miscellaneous

- S.R.B.P. panel 2 $\frac{3}{8}$ in \times 2in.

UNIT "B" INTEGRATOR MODE SWITCH

Resistors

- R1 10k Ω R4 4.7k Ω R7 27k Ω
- R2 10k Ω R5 27k Ω R8 4.7k Ω
- R3 1k Ω R6 1k Ω R9 10k Ω

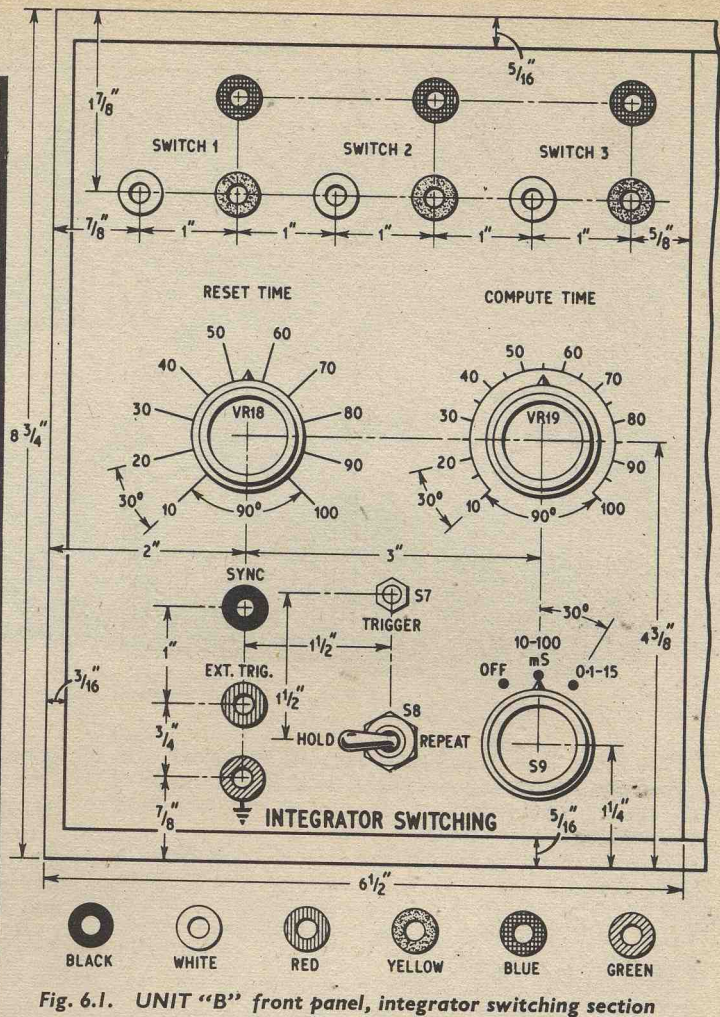


Fig. 6.1. UNIT "B" front panel, integrator switching section

- R10 10k Ω R12 3.3k Ω R14 1k Ω
 - R11 1k Ω R13 10k Ω R15 560k Ω
- All 10%, $\frac{1}{2}$ W carbon composition

Pre-set Potentiometers

- VR1 10k Ω
- VR2 5k Ω Both vertical mounting

Capacitors

- C1 1,000 μ F elec. 15V
 - C2 1 μ F polyester 250V d.c. C6 1 μ F polyester 250V d.c.
 - C3 1.4 μ F polyester 250V d.c. C7 1.4 μ F polyester 250V d.c.
 - C4 14 μ F elec. 25V C8 14 μ F elec. 25V working.
 - C5 0.1 μ F polyester 250V d.c. C9 0.068 μ F polyester 250V d.c.
- (The values of C3, C4, C7, and C8 are approximate—see text)

Transistors

- TR1-TR6 ACY28 or AC126.

Diodes

- D1, D2 OA95 (2 off)
- D3-D14 1B30 (Radiospares) (12 off)

Reed Coils

- RLA, RLB Miniature triple 12V Osmor type MT12V (2 off)

Reed Switches

- RLA1-RLA3 { Hamlin MRG2, 20-40AT (R.T.S. Ltd., P.O. Box 11, Gloucester St. Cambridge) (6 off).
- RLB1-RLB3 {

Miscellaneous

- S.R.B.P. panels: 1 off 6 $\frac{1}{4}$ in \times 2 $\frac{1}{2}$ in; 1 off 3in \times 2in. Small turret tags.