

SECTION 24

PHASE SHIFT UNITS TV/PSU/1 AND TV/PSU/IP

The Phase Shift Units TV/PSU/1 and TV/PSU/IP are used for the manual phase control of a 50-Hz reference signal for a sync pulse-generator. The circuit of the portable version, TV/PSU/IP, is shown in Fig. 24.1. The circuit of the TV/PSU/1 is identical but the normalised input jack is omitted. Phase shift is controlled by means of a resolver, shown inside the broken line, which has a rotor winding 1R-3R and two stator windings 1T-2T and

3T-4T. The stator windings are mounted at right angles to each other. The amplitudes of the voltages induced in these windings are proportional to the sine and cosine of the angular position of the rotor winding. By a suitable choice of values for resistor R1 and capacitor C1, the output voltage is approximately constant in amplitude and has a phase which varies with the angle of the rotor winding.

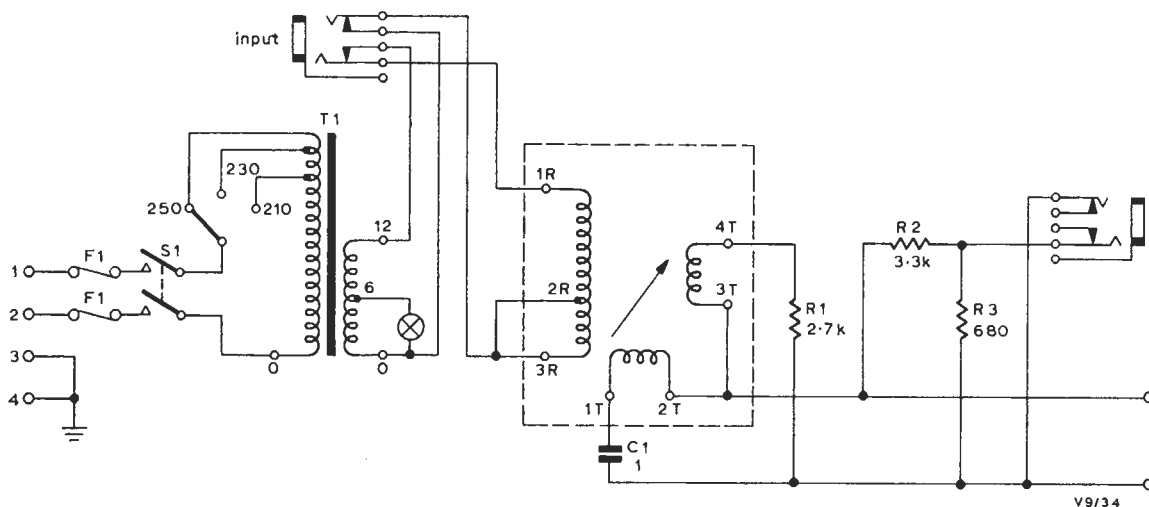


Fig. 24.1 Circuit of the TV/PSU/IP

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