

SECTION 7

STABILISED POWER SUPPLY UNIT SPS/12

General Description (Fig. 7)

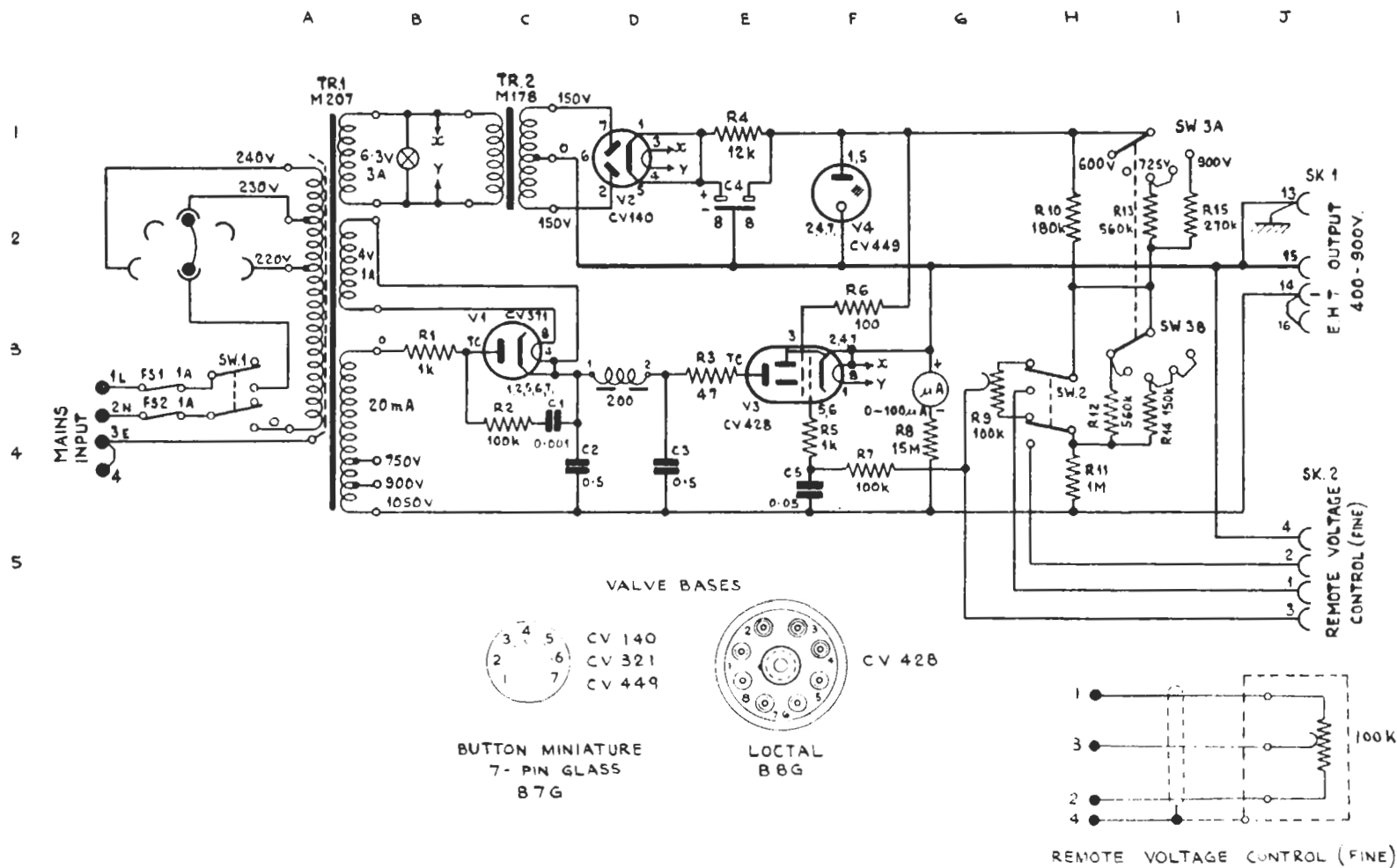
The Stabilised Power-supply Unit type SPS/12 provides a stabilised supply of between -400 and -900 volts at a maximum current of 10 milliamps. (For a detailed description of stabilised power supplies see Section 1 of this Instruction.) Three ranges of output voltage are provided: 400 to 550 volts, 500 to 700 volts and 600 to 900 volts. An internal control is provided for fine adjustment of the output voltage; alternatively, this function may be transferred to a remote control. The output voltage is monitored by meter M1. The meter is scaled 0-15 and full-scale deflection

corresponds to an output voltage of 1.5 kV.

Alignment Procedure

1. Set the mains selector switch at the rear of the unit to the appropriate tap. Set the output-control switch to *Internal*.
2. Switch on power and check that the white indicator lamp on the front panel of the unit is illuminated.
3. Terminate the output of the unit with a load of 120 kilohms. Check that the hum level, on the two lowest ranges of output voltage, does not exceed 400 millivolts p-p.

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STABILISED POWER SUPPLY UNIT SPS/12: CIRCUIT.