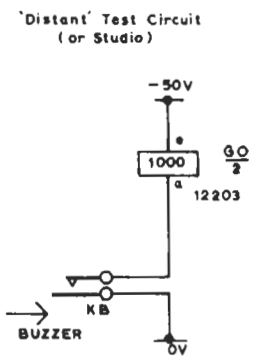
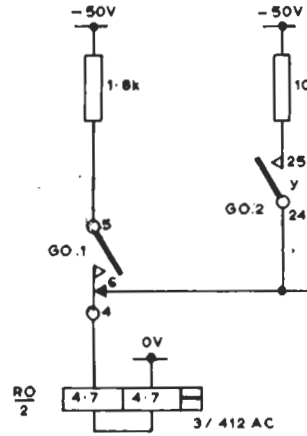
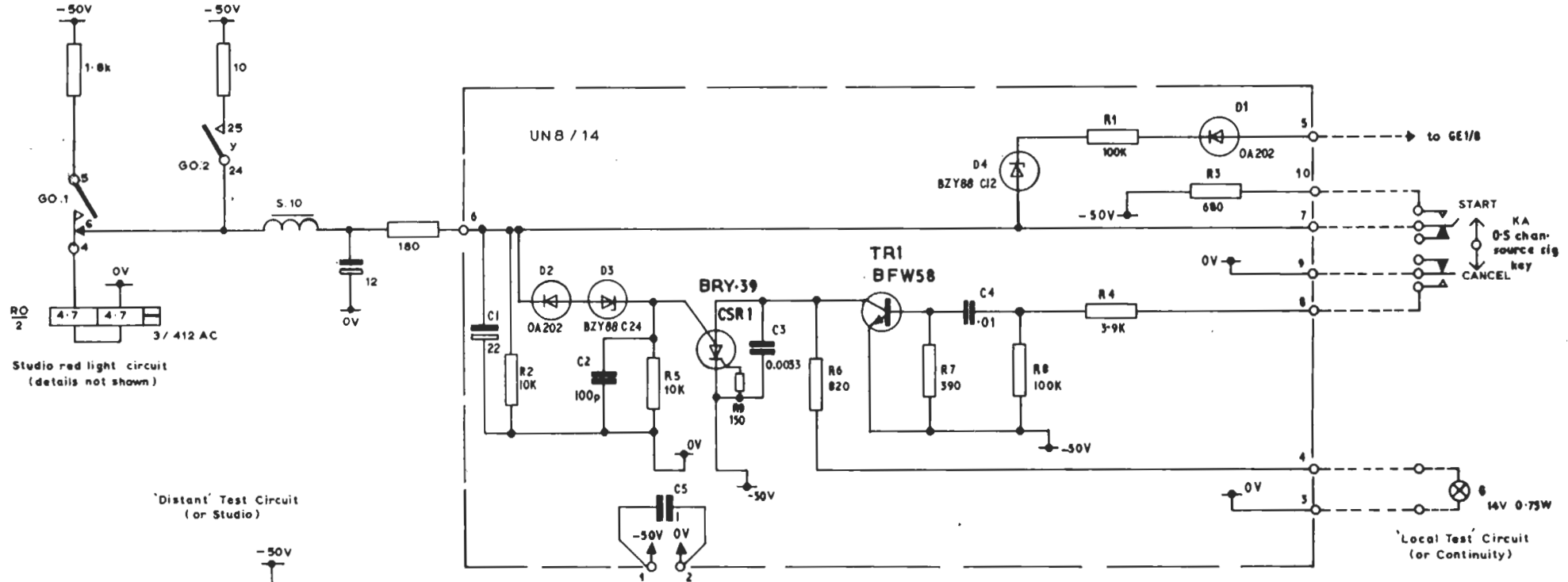


SOURCE SIGNALLING UNIT UN8/14



from D 27975 A3
and DSK13226 A3
partlist D 27976 A4

UN8/14/1

TRANSISTOR TERMINATIONS
VIEW ON LEADS



General Description

The source signalling unit UN8/14 provides facilities for red-light signalling to a remote studio and for the operation of the return green light and buzzer, and is used in conjunction with a source signalling key and lamp on a continuity desk. One unit is required for each source signalling circuit together with a common GE1/8 buzzer circuit. It is incorporated for example in the Miscellaneous Panel PA8/322.

The unit is constructed on a printed circuit card 53.2 mm by 49.2 mm and is fixed by four 6-BA screws on 47.7 mm by 35.5 mm fixing centres. It requires a 50-volt d.c. supply and draws no current in the static condition.

Circuit Operation (Fig. 1)

The operation of the unit can be followed by reference to Fig. 1. The buzzer GE1/8 is mounted in a desk telephone panel (e.g., PA8/309) and the key and green lamp on a channel panel (PA8/297). Circuit details vary with the type of installation, and a typical

use will be described.

The key is operated by the continuity operator several times to *Start*, causing relay RO to operate and the red light in the studio (not shown in Fig. 1) to flash. Biasing diodes D3 and D4 prevent CSR1 from striking or the buzzer sounding. When ready the studio desk operator presses the buzzer push switch causing relay GO to operate, thus applying sufficient volts to strike CSR1, which lights the green lamp, and at the same time the buzzer GE1/8 is energised.

The continuity operator throws the key momentarily to *Cancel*. A pulse is applied to the base of TR1 through C4 and this extinguishes CSR1 and the green lamp goes out. When transmission is due the continuity operator throws the key to *Start*, bringing up the studio red light.

Test Procedure

Using the circuit of Fig. 1, the sequence of operations described under Circuit Operation should occur.

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