CHANGE-OVER RELAY PANEL PA17/525

Introduction

The PA17/525 comprises twelve miniature plug-in relays fitted to a panel which is suitable for mounting on a 19 in. bay framework. The relays, connected as shown in Fig.1, provide change-over facilities for video and sound programme inputs. The change-overs are effected by switched earth connections brought into pins of socket SKTX. A supply of 50-volts d.c. is required at plug PLZ.

A description of the use of the panel is given in Technical Instruction BA13/513. The dotted line connections shown in Fig.1 are alternative arrangements and are detailed also in the BA13/513 Instruction.

Circuit

The BFY50 transistor and its associated components provide an operating delay for relay RLj. Pins SKTX-9 and SKTX-10 are connected, respectively, to the normally closed contact and the traveller of a change-over contact unit on an external relay. Normally pin SKTX-10 is connected via the traveller to earth and relay RLj is energised. If the external relay is energised the earth is removed from pin SKTX-10 and a connection is made between pins SKTX-9 and SKTX-10. Relay RLj is de-energised and the capacitor discharged. If the external relay is subsequently de-energised the connection is broken and relay RLj is not re-energised until the capacitor has fully charged.

Contacts RLa-2 and RLe-2 are arranged such that when both these relays are energised a 50-volt potential is available between pin SKTX-6 and earth.

External Connections

Sound programme connections are made to pins of a 19-way socket SKTY. Video connections are made via Musa coaxial plugs. The 50-volt supply is connected, as mentioned previously, to 7-way plug PLZ; negative to pins 5 and 6, positive to pin 7 which is connected to earth externally. Other external connections are made via 31-way socket SKTX. The plugs and sockets are mounted on the rear of the panel and the relays fit into holders on the front.

References to Typical Associated Equipment

1. Transmitter Input Bay BA13/513.

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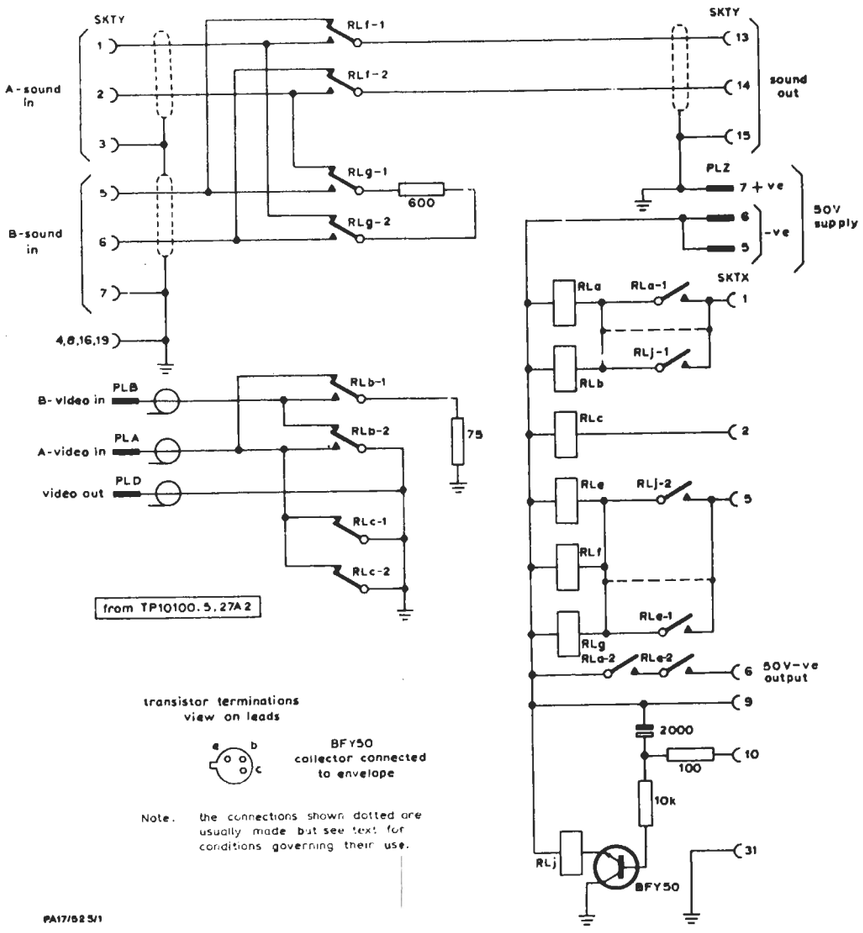

Fig. 1. Circuit of the PA17/525