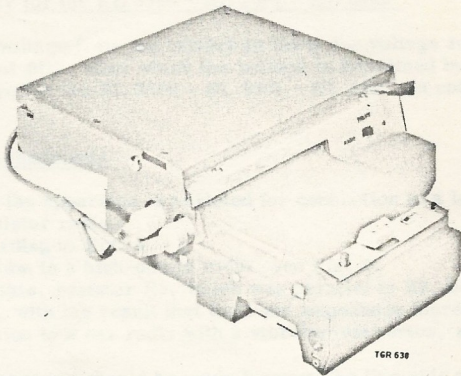


PHILIPS

Service

EL 3794D/00A/00B



The EL 3794D/00A/00B is a mounting sled which makes it possible to use the EL3300 - EL 3301 - EL 3302 in a car.

It enables power supply of the EL 3300 - EL 3301 - EL 3302 from the battery and recording and playback via the car radio.

Operating voltages :  
+6 V ; - 6 V ; + 12 V ; - 12 V.

These Service Notes consist of sheets ME 418E- ME 419E - ME 420 - ME 421.

ME 418E

SERVICE INFORMATION										
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JWs/PG



#### EL 3794D/00B

In this version plug item 44 has been provided with a blue mark. This plug is connected as shown in Fig. 2. In case of connection to a car radio it should be ensured that the connection plug of the radio also has a blue mark. If this is not the case points 1 and 4 of plug item 44 should be resoldered, see Fig. 3.

#### EL 3794D/00A

With this version plug item 44 has no blue mark. This plug is connected as shown in Fig. 3. In case of connection to a car radio, make sure that the connection plug of the radio has no blue mark either. If so, points 1 and 4 of plug item 44 should be resoldered, see Fig. 2.

#### Adjusting voltage and polarity

This is done by turning the voltage adapter so that the required voltage and polarity are opposite the triangle on the printed wiring board. In order to make the voltage adapter accessible, two screws at the right-hand side and one screw at the bottom side of the apparatus must be removed, after which the cover at the bottom right side can be taken off.

#### Circuit description

##### Position "RECORDING" (switch SK2 in position "RADIO")

The signal is taken from the detector of the car radio and is passed to the primary side of T1, via SK2 (I), R8 and R9. Transformer T1 serves to enable operation of the EL 3300 - EL 3301 - EL 3302 independent of the polarity of the car radio. The other side of the primary is connected to the chassis of the car radio. From the secondary side of T1 the signal is passed to the input of the EL 3300 - EL 3301 - EL 3302 (BU4, point 1) via SK2 (II) and SK3.

#### List of mechanical parts

Item	Code number	Description
1	987/6	Lock washer
2	985/1,9	Retaining ring
3	985/6	Retaining ring
4	999/4x8	Screw
26	999/5x12	Ornamental screw
27	4822 210 00979	Mounting rib
28	4822 210 00971	Sliding spindle
29	4822 210 00972	Sliding bush
30	4822 210 00973	Clamping spring
31	4822 210 00969	Sliding roller
32	978/M3x1,5	Plug
33	978/5x270	Plug
34	4822 210 00968	Sliding support
35	4822 210 00966	Hinge
36	4822 210 00967	Socket plate assembly
37	4822 202 00867	Protecting cover assembly
38	4822 210 00975	Torsion spring
39	4822 210 00974	Swing lever with knob
40	4822 210 00981	Ornamental shield
41	4822 182 00356	Ornamental screw
42	975/11x5	Grommet
43	R 365 KA/805BS8	Cable perimetre
44	978/5x270	Plug
45	4822 126 01231	Voltage adapter plate
46	970/29	Sliding switch
47	979/S5x180	Built-in plug with switch
48	4822 202 00868	Protecting cover assembly
49	4822 210 00978	Voltage adapter

##### Position "PLAYBACK" (switch SK2 in position "LOUDSPEAKER")

The line output signal of the EL 3300 - EL 3301 - EL 3302 is applied to the secondary side of T1 via point 4 of BU3, R5, SK2 (II). From the primary side the signal is passed to the volume control in the car radio via SK2 (I). The detector of the car radio is now inoperative.

##### Power supply for the EL 3300 - EL 3301 - EL 3302

The supply voltage from the battery is fed to the voltage adapter via contact of BU2, after which the voltage is stabilised by R3, R4 and applied to the EL 3300 - EL 3301 - EL 3302 via contact 1 of BU3.

#### Electrical adjustments

On delivery the apparatus is adjusted for connection to a low-ohmic transistor radio.

Adjust according to Fig. 4.

For connection to a high-ohmic radio, see Fig. 6.

Because of this, resistor R8, which was parallel to R9, becomes inoperative, with the result that the input impedance increases. For connection to a car radio with a vibrator-converter, see Fig. 5.

For this connection should be made between the live side of the loudspeaker output and contact 9 (E) on the connection strip of the printed wiring board.

When recording, the signal is taken from the loudspeaker output and applied directly to T1 via SK2 (I) and then to the input of the EL 3300 - EL 3301 - EL 3302 via R7.

R10 is also inserted in this lead in order to reduce interference to a minimum. With playback the signal is applied to the secondary side of T1 via voltage divider R5, R6 and then from SK2 (II) directly to the car radio.

##### Recording by means of a microphone

Socket BU1 has been provided for this purpose.

Upon insertion of the plug SK3 is opened and this cuts off the car radio signal.

#### List of mechanical parts

R1	:	938/A18E
R2	:	900/P82E
R3	:	4822 071 00835
R4	:	4822 071 00835
R5	:	901/2K2
R6	:	901/2K2
R7	:	901/10K
R8	:	901/22K
R9	:	901/220K
R10	:	901/100E
T1	:	4822 210 00976
L1	:	A3 986 97



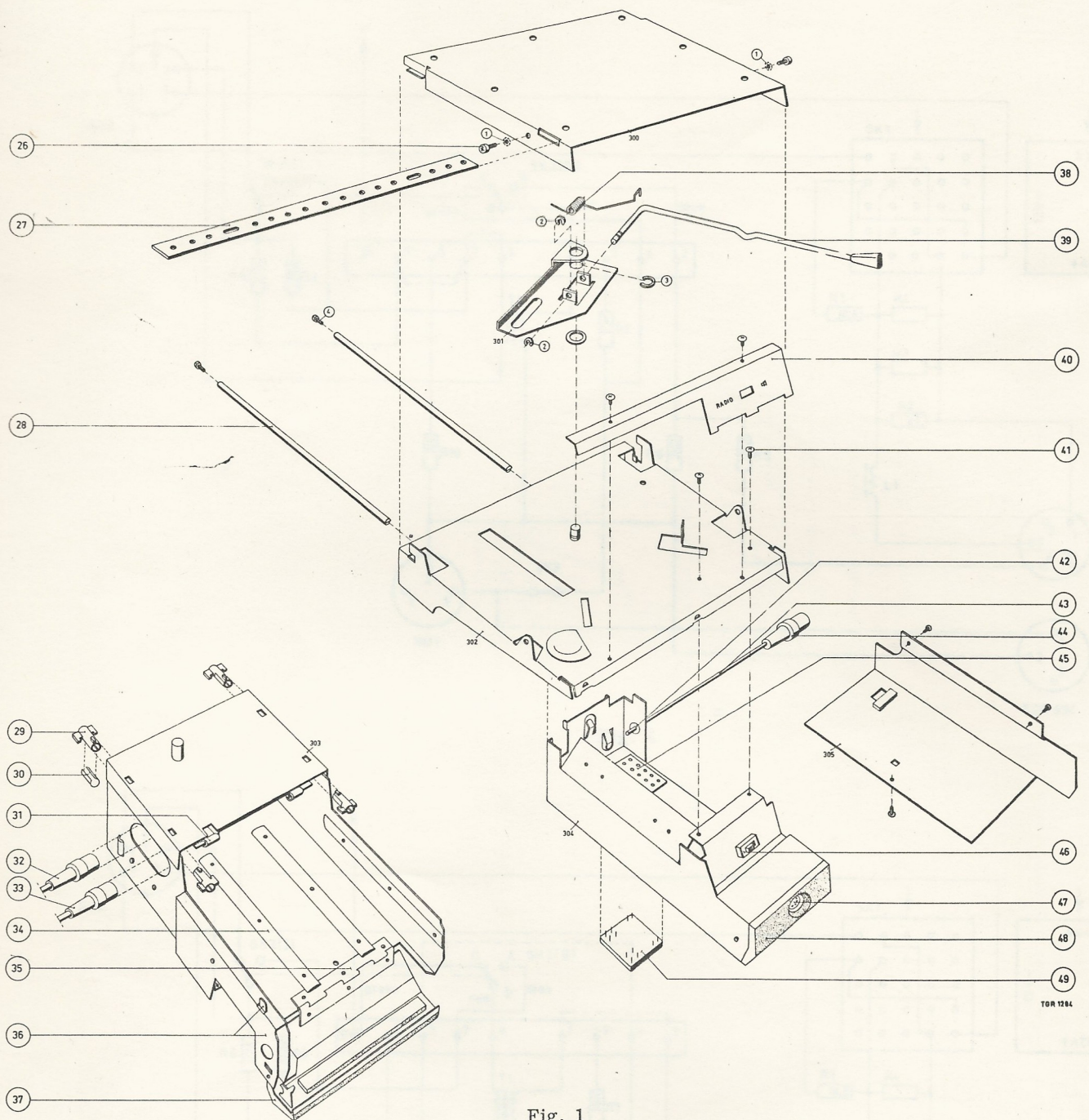


Fig. 1

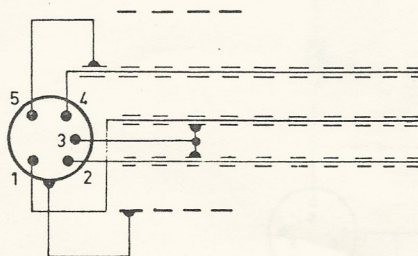


Fig. 2

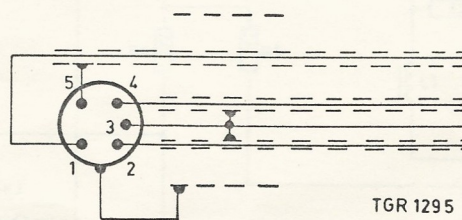


Fig. 3

TGR 1295



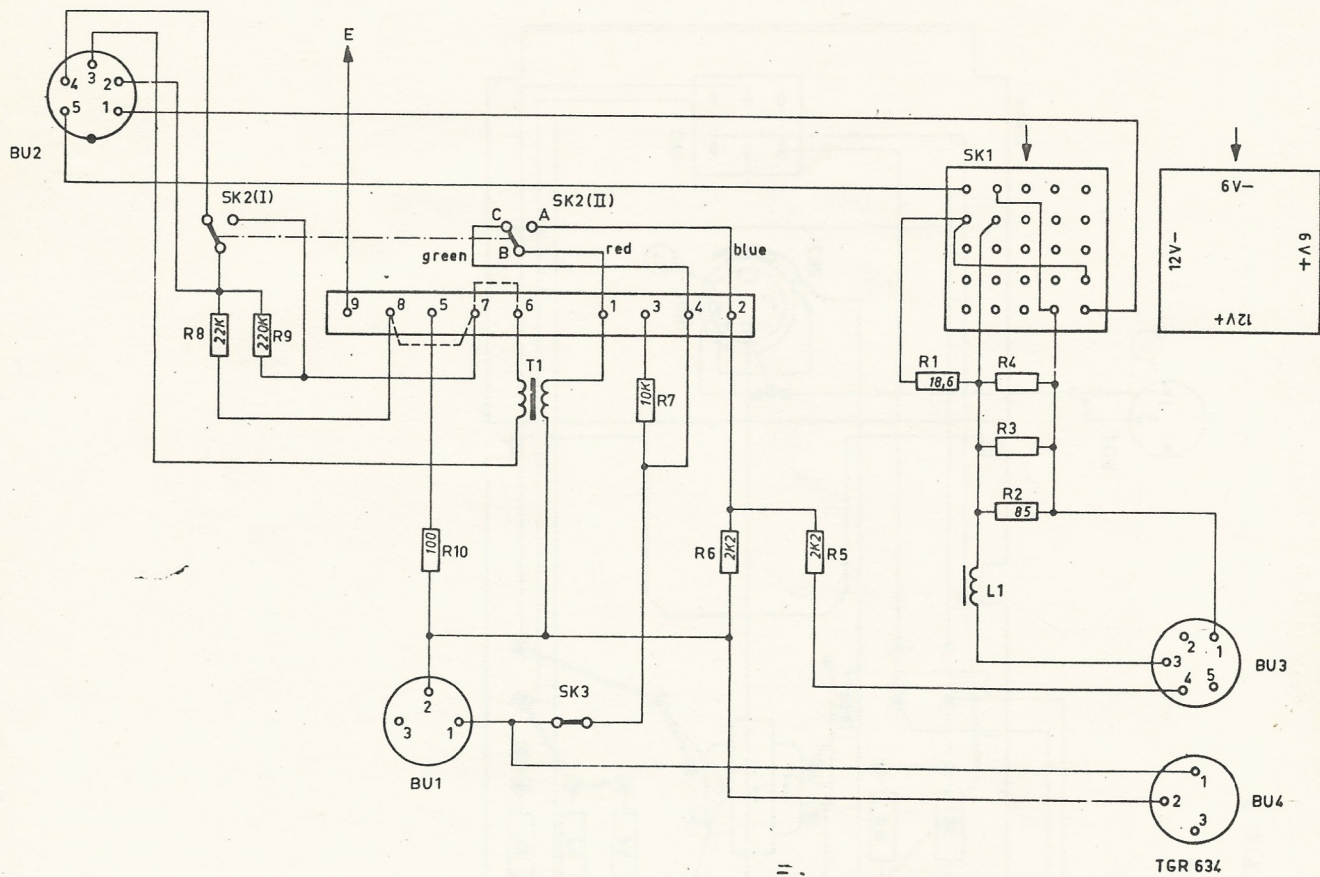


Fig. 4

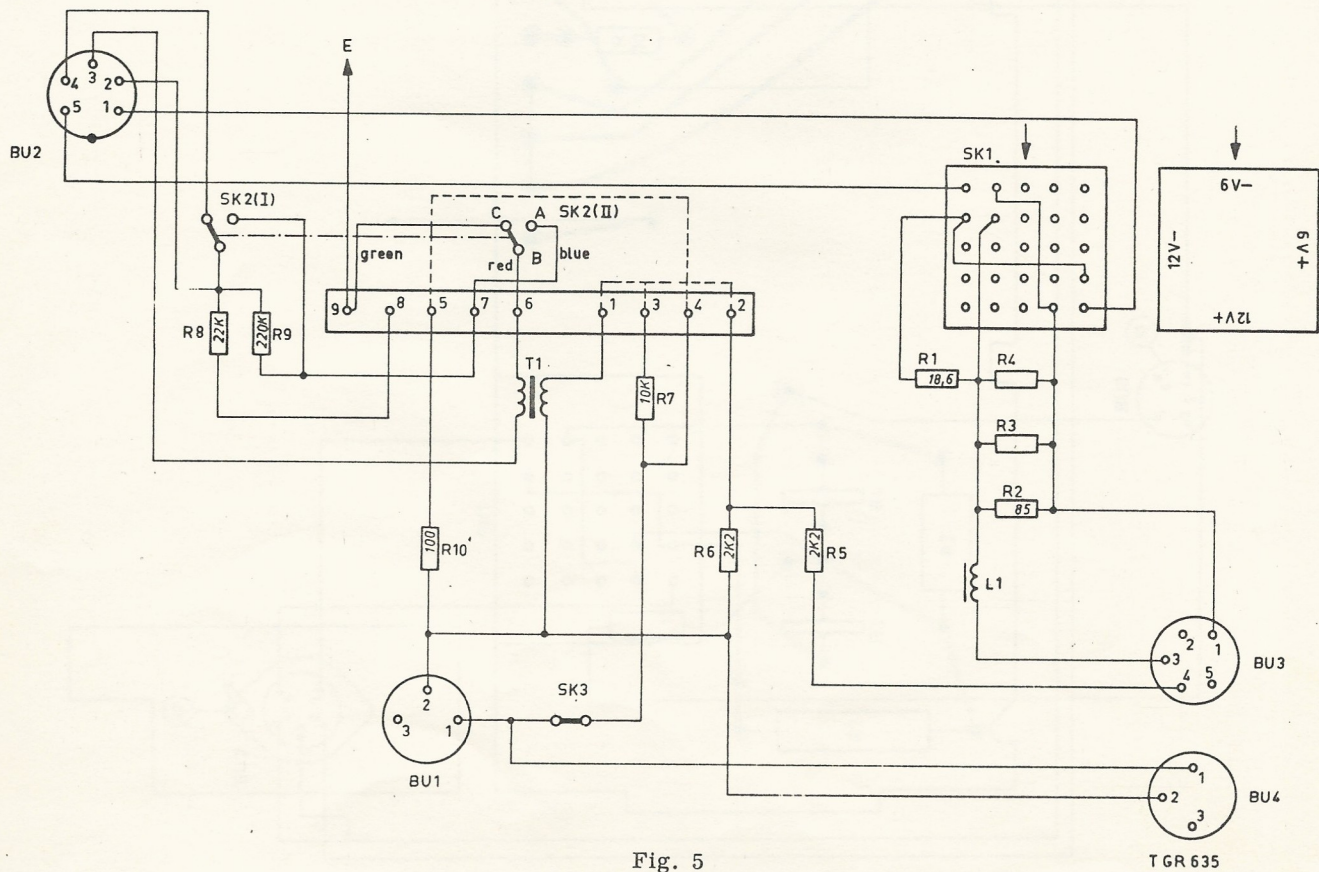


Fig. 5

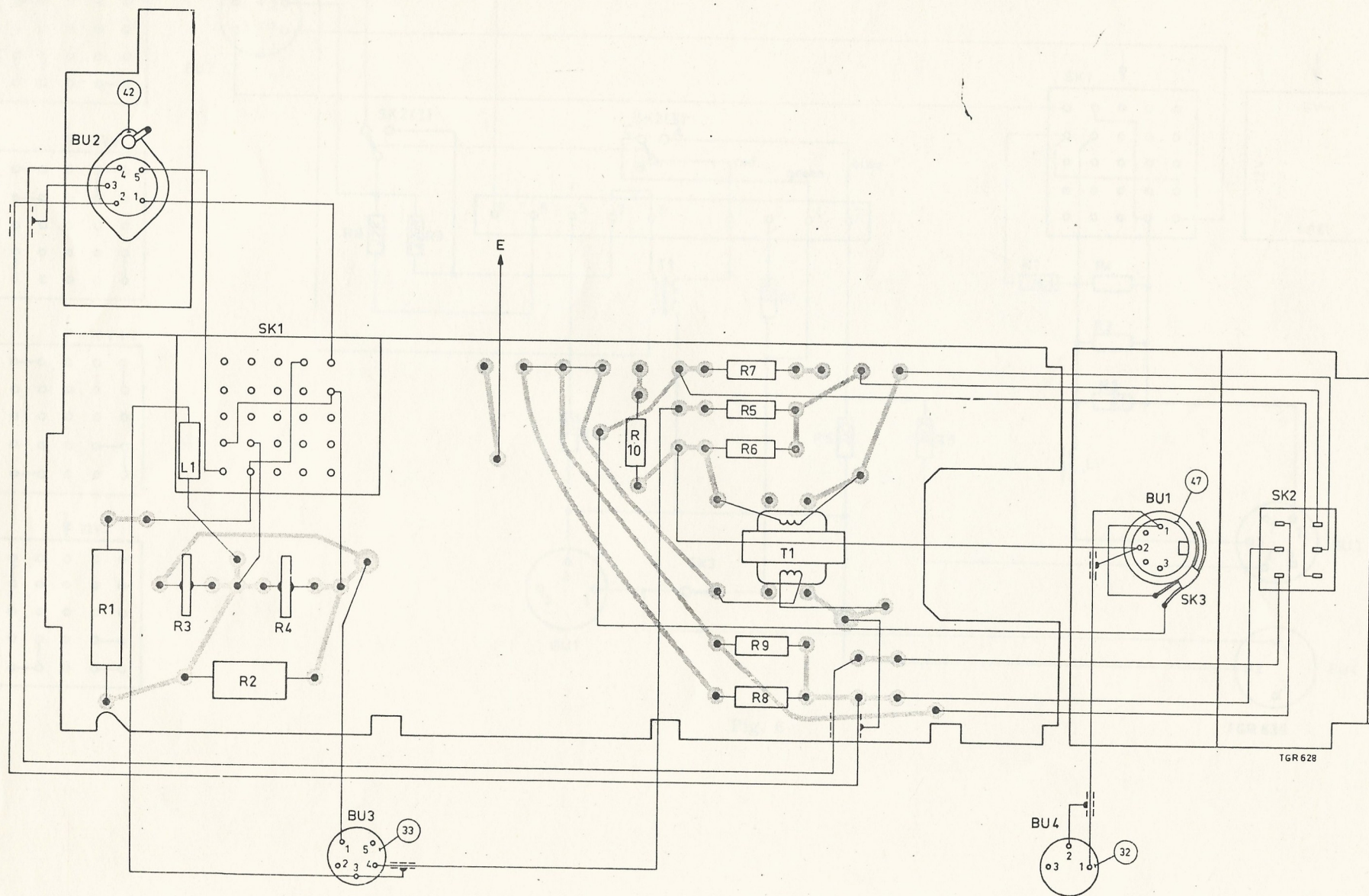


Fig. 7



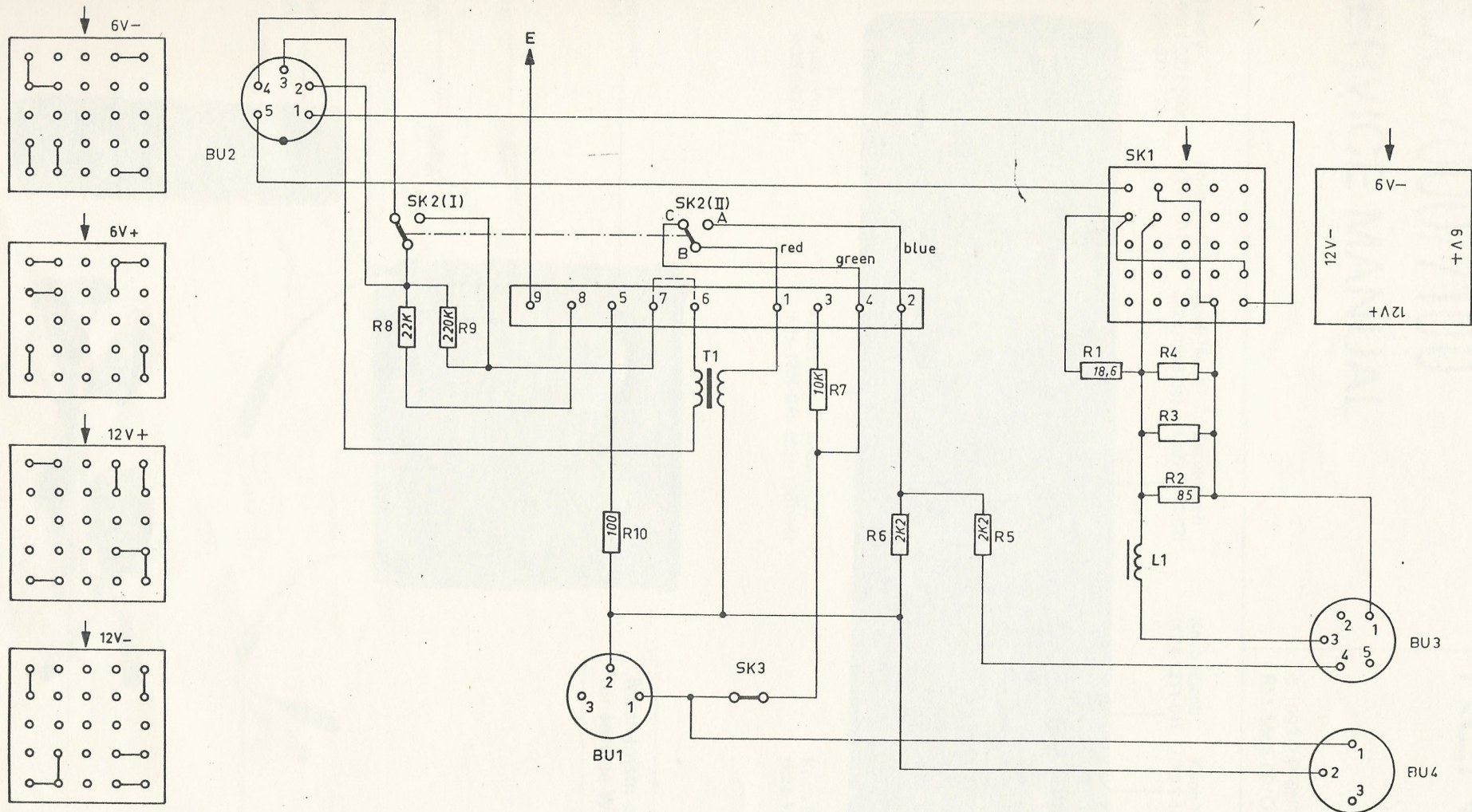


Fig. 6

TGR 636