

PERDIO - 100

IN so far as the R.F., I.F. and detector stages are concerned, the Perdio 100 receiver is identical in all respects (with one minor exception) to a previous receiver, the Perdio 95, and our circuit diagram therefore shows only the audio amplifier and output stages of the 100.

Resistors

R1-R28	—
R29-R39	—
R40	5kΩ
R41	3.9kΩ
R42	150kΩ
R43	22kΩ
R44	6.8kΩ
R45	1.5kΩ
R46	1kΩ
R47	220Ω
R48	470Ω
R49	56Ω
R50	3.3Ω
R51	27kΩ
R52	15Ω

Capacitors

C1-C61	—
C62-C69	—
C70	1,200pF
C71	0.047μF
C72	0.047μF
C73	2μF
C74	160μF
C75	160μF
C76	160μF
C77	500pF
C78	160μF

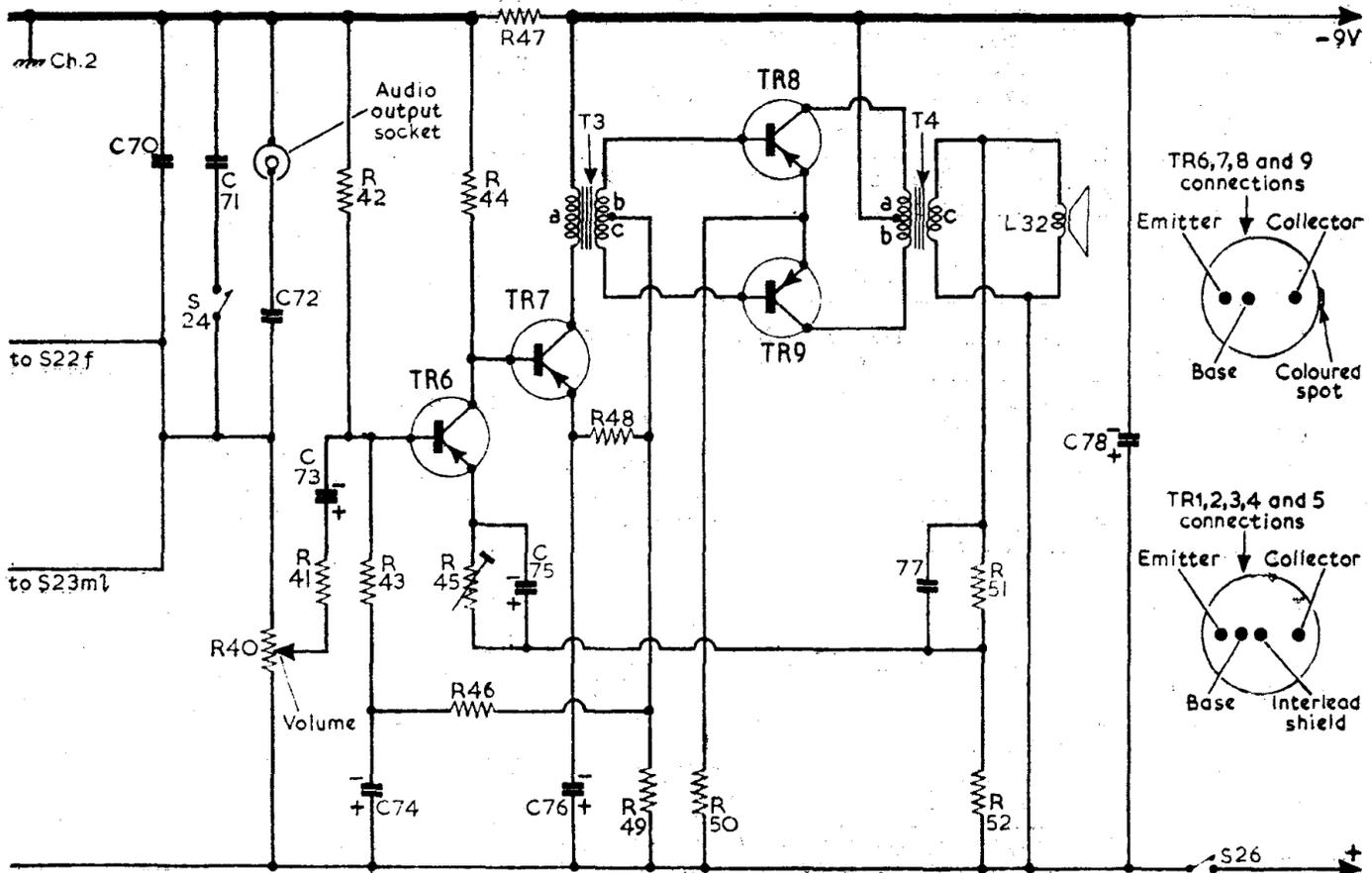
Transformers*

T1, T2	—	C3	
T3	a		280
	b		70
	c	70	
T4	a	—	B3
	b	—	
	c	—	

*Approximate D.C. resistance in ohms.

†See Service Sheet 1512, model 95.

‡Wired on underside of panel.
§No Component.



CIRCUIT ALIGNMENT

Before carrying out alignment to the I.F. and R.F. circuits, the audio stages should be set up for optimum working conditions. To facilitate this operation the connection from T4 centre tap to the battery supply has been wired on the underside of the panel in the form of a link.

Ensure that the battery is disconnected then remove the link and replace it with a 0—10mA D.C. meter, positive terminal to the centre tap. Re-connect the battery and with the volume control set to its minimum position, adjust R45 (C2) for a reading of 7mA on the meter. Disconnect the battery, then disconnect the meter and resolder the link into position.

“Circuit Alignment (F.M.)” and “Circuit Alignment (A.M.)” should be carried out as directed in Service Sheet 1512 for model 95.

TRANSISTOR ANALYSIS

Transistor voltages given in the table below are derived from information supplied by the manufacturer. They were measured on a 20,000Ω/V meter with the positive terminal connected to battery positive. The battery measured 9V. There was no signal input.

Transistor Table

Transistor	Emitter (V)	Base (V)	Collector (V)
TR6 OC71	1.15	1.0	1.6
TR7 OC81D	1.55	1.6	8.2
TR8 OC81	—	0.12	9.0
TR9 OC81	—	0.12	9.0

For TR1-TR5 voltage readings, refer to model 95 (Service Sheet 1512).