

ERT

SERVICE CHART

Marconi- phone 4266 Cassette recorder

1983



THE Marconiphone 4266 (and Ferguson 3266) is a portable cassette tape recorder which is powered either from internal batteries or an optional external mains power pack.

It comes complete with microphone and carrying case.

Power supply: 7.5V DC. Five HP11 or mains adaptor type TA22.

Tape speed: 1 $\frac{7}{8}$ inch/sec.

Tracks: Two (mono).

Frequency response: 80Hz—8kHz \pm 6dB.

Signal/noise ratio: 38dB unweighted.

Wow and flutter: \pm 0.4% measured to DIN 45507.

Bias frequency: 47kHz.

Level meter: Combined record level and battery indicator.

Rewind time: 2 $\frac{1}{4}$ minutes for C60.

Microphone: External 500 ohm with remote control for ON/OFF.

Transistors:		Diodes:	
TR1	BC114	D1	A8A21
TR2	BC114	D2	IN4448
TR3	BC109	D3	IN4448
TR4	BC107	D4	IN4448
TR5	AC128	D6	IN4448
TR6	AC176	D7	IN4448
TR7	AC128		
TR8	BC109		
TR9	AC128		

Outlet: 500mV at 10K.

Output: 500mW.

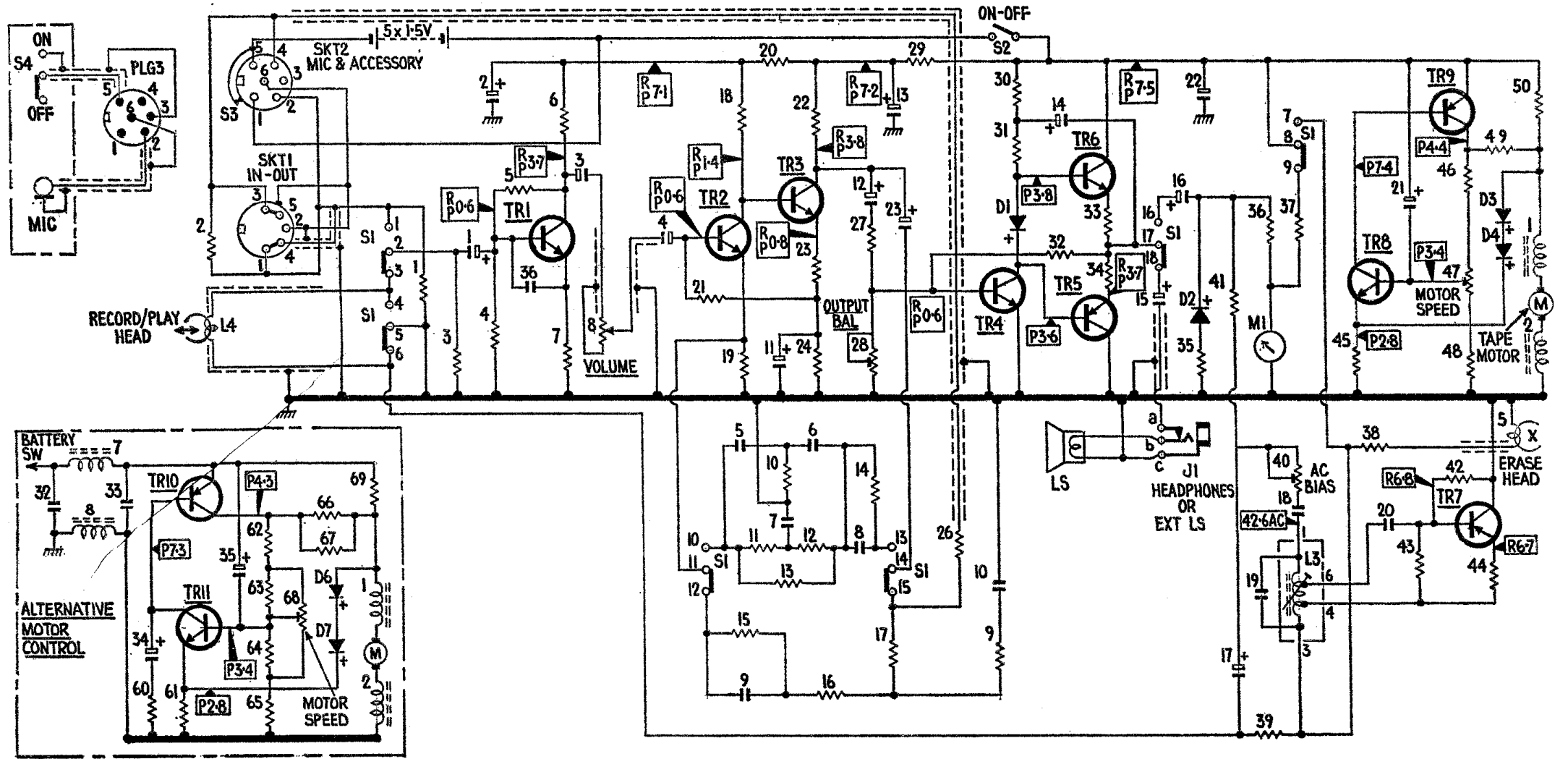
Speaker: 70mm, 8ohm.

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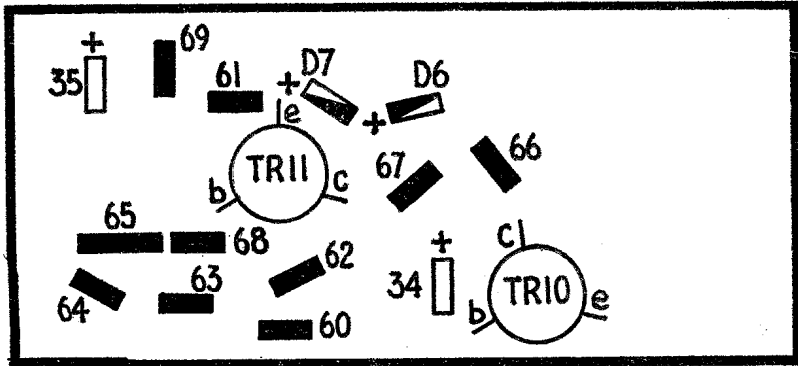
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() ALTERNATIVE MOTOR CONTROL COMPONENTS



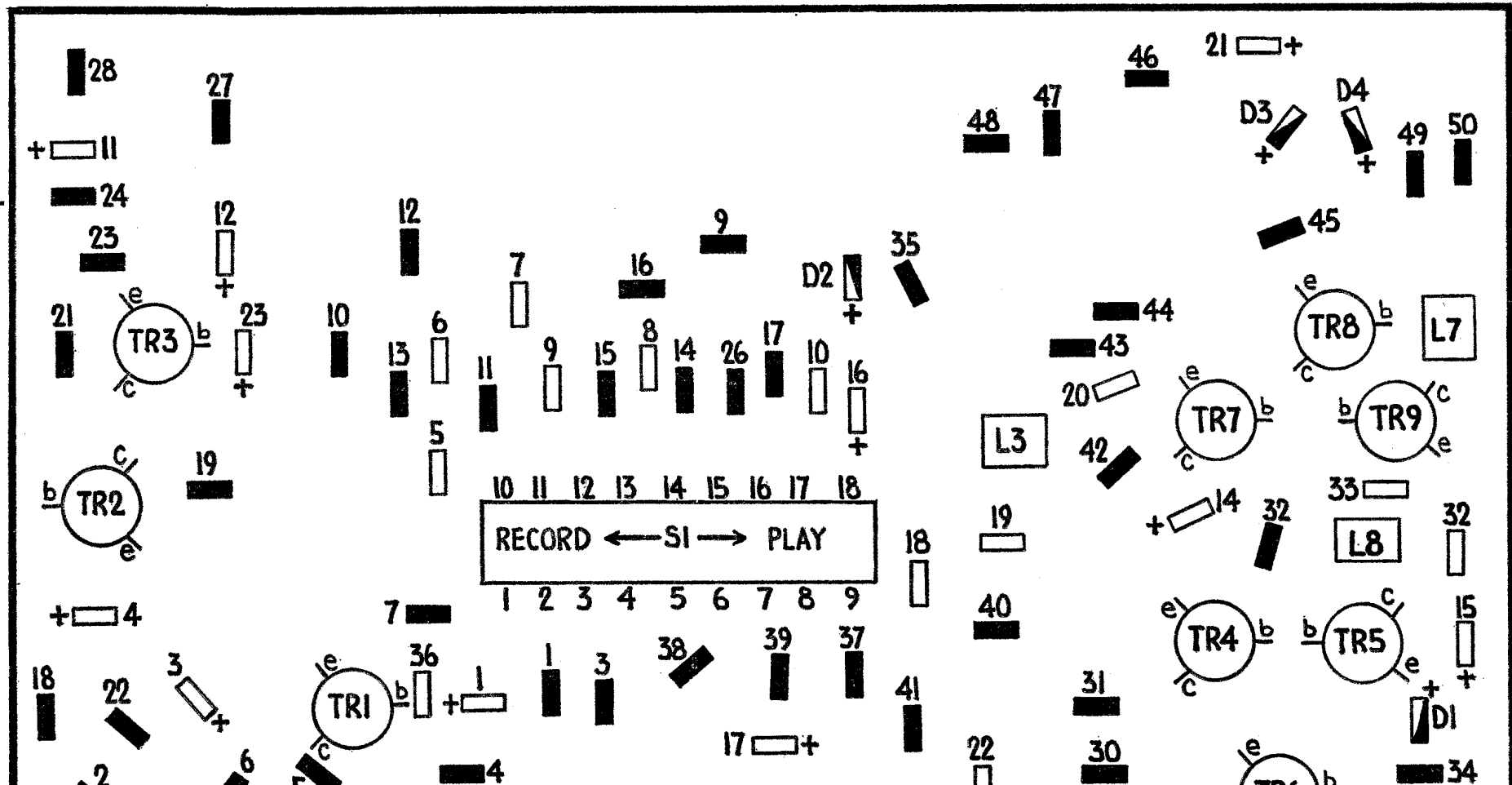
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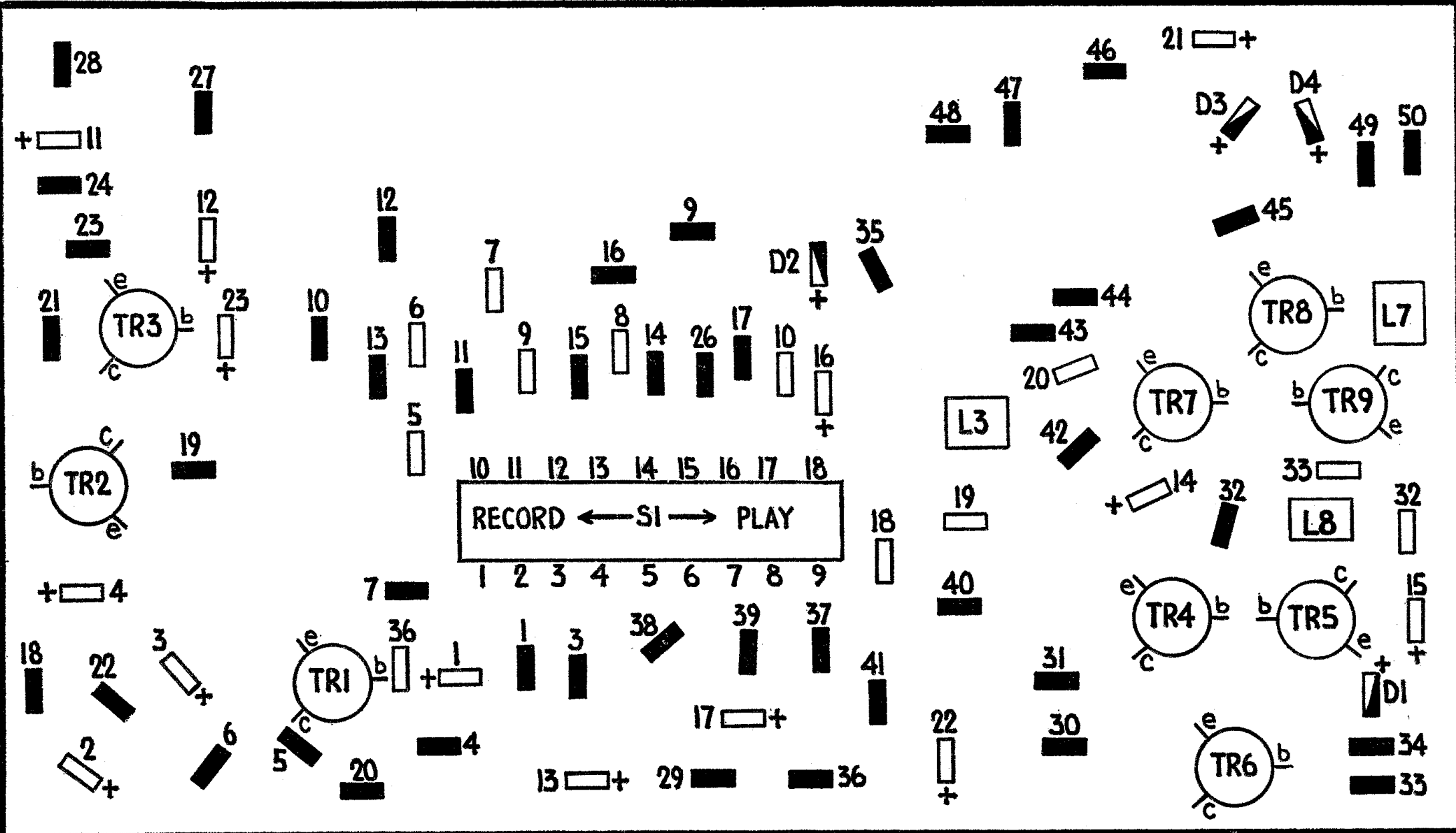
ALTERNATIVE MOTOR CONTROL BOARD

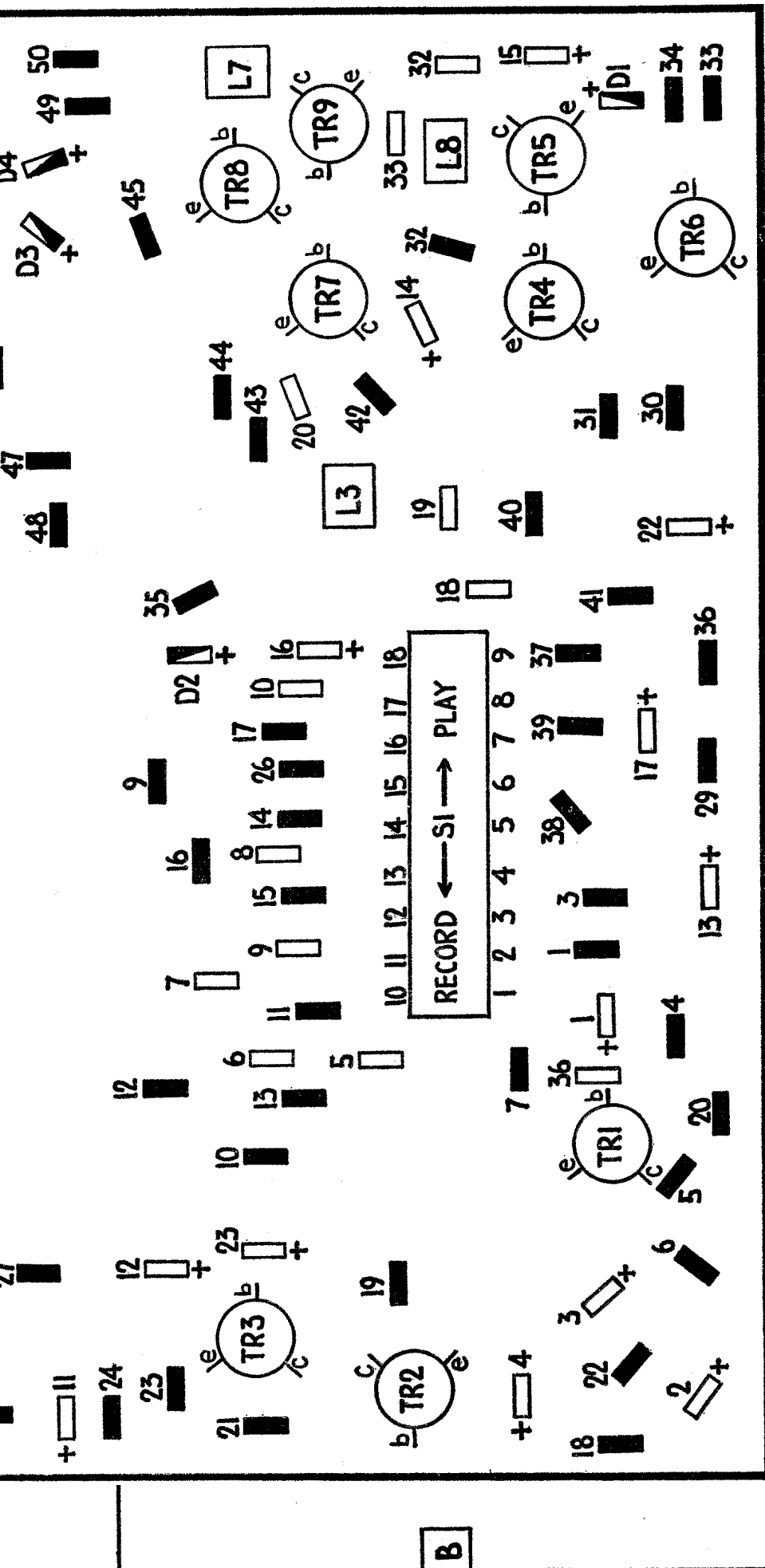
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Inputs: 150µV into 2K and 165mV into 10K.

Dimensions: 227 × 137 × 73mm.

Price: £18.90 plus VAT.

Manufacturer: Thorn Consumer Electronics Ltd., 284 Southbury Road, Enfield, Middx. 01-366 1155.

Service Dept: P.O. Box No. 121, Lea Valley Trading Estate, Angel Rd, Edmonton, London N18 3BP. 01-807 3060 (Spares 01-807 0791).

Thorn House, Derby Street, Cheetham, Manchester 8. 061-832 2499.
155 Shieldhall Road, Glasgow, SW1. 041-882 4512.

Dismantling

The carrying strap must be removed before removing the recorder from its pouch.

Remove battery cover and batteries. Take out screw on back cover to expose copper side of printed board. To release board, remove two screws and washers securing board to stand-off pillars. Raise the board and ease sideways to free wire linkage to record/play switch

When removing the chassis from case, remove volume control knob, take out the slotted studs at either side of the case and two screws and washers at the speaker end of the chassis. Push back the record button interlock to enable it to pass through hole.

When reassembling the PC board to the chassis, ensure that the slide switch engages correctly with the wire linkage of the operating lever. Before refitting top cover check that the meter and record button are correctly positioned.

Services notes:

On early models the motor control components were mounted on a separate PC board shown as an alternative network in the circuit diagram, except L7, L8, C32 and C33 which were mounted on the main PCB.

On later models a combined erase and signal head was introduced and a tape guide fitted in the position formerly occupied by the erase head.

RESISTORS		CAPACITORS	
R1	2K2	R48	1K8
R2	2M2	R49	2R7
R3	100K	R50	470
R4	270K	R60	3K9
R5	1M	R61	470
R6	18K	R62	330
R7	220	R63	43
R8	100K	R64	470
R9	1K2	R65	1K2
R10	6K8	R66	15
R11	15K	R67	3R0
R12	15K	R68	500
R13	150K(680K)	R69	680
R14	100K	Values of resistors in brackets apply to models employing separate erase and record/playback heads.	
R15	680K	CAPACITORS	
R16	12K	C1	4.7/35V
R17	5K6	C2	100/10V
R18	47K	C3	1/35V
R19	390	C4	1/35V
R20	470	C5	1n5
R21	180K	C6	1n5
R22	4K7	C7	3n3
R23	47	C8	47n
R24	1K	C9	6n8
R26	10K	C10	6n8
R27	3K3	C11	100/10V
R28	5K	C12	4.7/35V
R29	220	C13	200/10V
R30	100	C14	10/25V
R31	220	C15	100/10V
R32	12K	C16	22/10V
R33	1R0	C17	1/35V
R34	1R0	C18	330p
R35	270	C19	8n2
R36	5K6	C20	100n
R37	39K	C21	4.7/35
R38	560(56)	C22	200/10V
R39	220K(120K)	C23	4.7/35V
R40	50K(100K)	C32	100n
R41	22K(8K2)	C33	100n
R42	3K9	C34	3µ
R43	820	C35	4.7/35
R44	22	C36	330p
R45	470		
R46	390		
R47	220		