

Marconiphone 4025

1974

Stereophonic record player

Resistors			Capacitors		
R1	100kΩ	D3	R25	2.2Ω	B2
R2	100kΩ	G2	R26	2.2Ω	F2
R3	2MΩ	D3	R27	100kΩ	J2
R4	2MΩ	E3	R28	100kΩ	H2
R5	50kΩ	G3	Capacitors		
R6	50kΩ	H3	C1	0.22μF	B3
R7	120kΩ	B2	C2	0.22μF	F3
R8	120kΩ	F2	C3	1,000pF	B3
R9	180kΩ	B2	C4	1,000pF	F3
R10	180kΩ	F2	C5	0.01μF	G3
R11	22kΩ	B2	C6	0.01μF	G2
R12	22kΩ	F2	C7	250μF	B2
R13	1.2kΩ	C2	C8	250μF	F2
R14	1.2kΩ	F2	C9	250μF	B2
R15	10Ω	B2	C10	250μF	F2
R16	10Ω	G2	C11	400μF	A2
R17	1kΩ	B2	C12	400μF	E2
R18	1kΩ	F2	C13	2,500μF	G2
R19	15Ω	A2	Miscellaneous		
R20	15Ω	E2	W1	LT120	E2
R21	680Ω	B2	F1	500mA	D2
R22	680Ω	F2	PL1	UD651	J1
R23	2.2Ω	B3			
R24	2.2Ω	F3			

Introduction

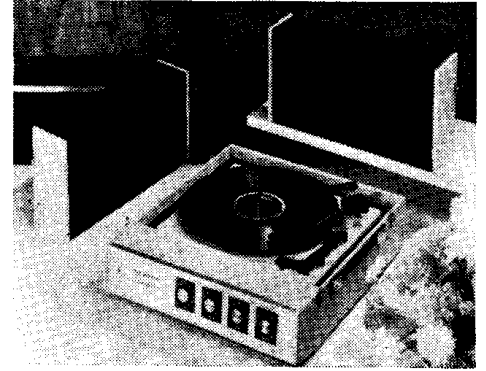
Marconiphone model 4025 is a mains operated portable stereo record player suitable for 240V 50Hz supplies only.

The lid is formed by the two loudspeaker enclosures, which are unclipped and placed in position for best stereo effect when in use.

Power output is 3W per channel and is handled with 7 x 4in elliptical loudspeakers of 15Ω impedance.

Dismantling

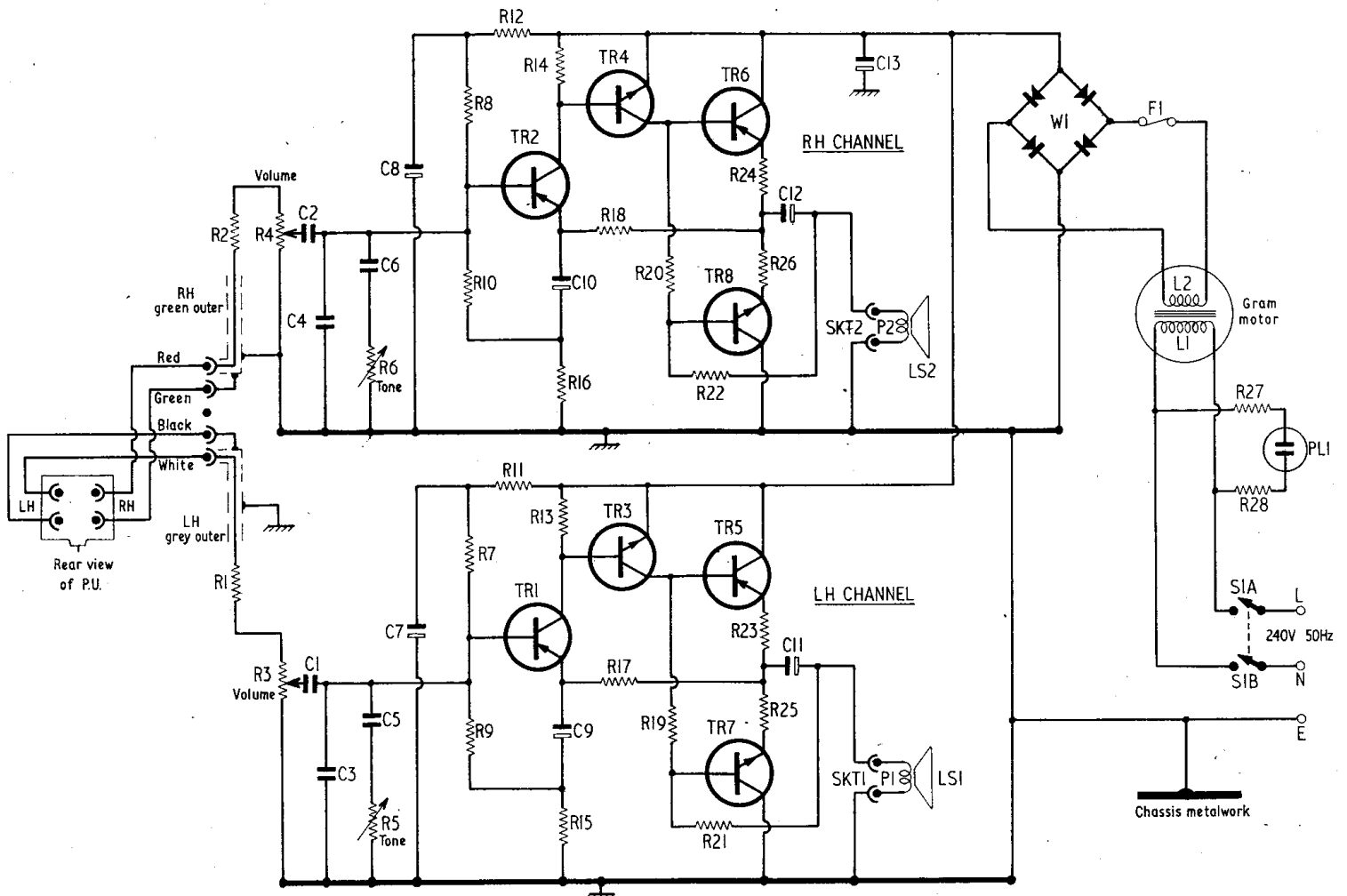
Lift off loudspeakers by unlatching clasps on sides of case, then remove front cover (two screws). Take out four screws –



one from each side and two from rear of case. Fully unscrew transit screws to lock autochanger, and ensure that pickup

(Continued overleaf col. 1)

C	2	4	6	8	10	12	13	C
		1	3	5	7	9	11	
R	2	4	6	8	10	12	13	R
	1	3	5	7	9	11	13	15



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Continued from overleaf—

is retained by its clip. Ease motor board forward to clear recess in case back, then lift from left-hand side and place on its rear edge diagonally across bottom of case.

The printed circuit assembly can be released by pulling off the control knobs and removing two nuts and washers securing it to the front panel.

To disconnect the assembly completely, pull off pickup leads from tag panel on underside of autochanger chassis; unsolder neon lamp leads, motor leads and loudspeaker leads from printed circuit panel — noting colour coding and positions for reconnecting — then unsolder mains lead on switch and mains earth on chassis tag.

General notes

Mains lead stowage. — To avoid damaging the pickup arm or pickup, note position for fitting each loudspeaker and ensure that the mains lead and plug are stowed on the left-hand side of the record player.

Cartridge replacement. — Take out screw in head of pickup arm to release cartridge. Pull off tag connections at rear of cartridge — noting position and colour coding for connecting to the replacement cartridge.

Stylus replacement. — To remove a worn styli assembly, turn the indicator flag to either playing position. A gentle downward pressure and forward movement of the styli assembly will release it from its mounting. After replacement ensure that the stylus arm is engaged properly within the V-shaped fork of the cartridge.

Transistor analysis

Transistor voltages quoted in the table were obtained from data supplied by the manufacturers. They were measured under quiescent conditions with a 20,000Ω/V meter and are negative with respect to chassis line.

Transistor table

Transistor	Emitter (V)	Base (V)	Collector (V)
TR1 AF1 (BC187)	12.0	10.75	22.75
TR2 AF1 (BC187)	12.0	10.75	22.75
TR3 AF6 (BC107)	23.2	22.75	11.5
TR4 AF6 (BC107)	23.2	22.75	11.5
TR5 OP2A (AC128)	-11.5	11.5	23.2
TR6 OP2A (AC128)	11.5	11.5	23.2
TR7 OP2B (AC176)	11.5	11.4	0
TR8 OP2B (AC176)	11.5	11.4	0

Input to W1 18-2V 50Hz.

Component locations on circuit panels viewed from component side. Numbers 1 to 11 in the illustration refer to tag connections. Tag numbers 1 to 6 connect the following points: Right-hand channel—1, pick-up lead screening to positive chassis line, 2 and 3 output to SKT2. Left-hand channel—4, pick-up lead to R1, 5 and 6 output to SKT1.

