

RESISTORS

- R1 820K
- R2 820K
- R3 180K
- R4 180K
- R5 18K
- R6 18K
- R9 1M
- R10 1M
- R11 22K
- R12 22K
- R13 330K
- R14 330K
- R15 10K
- R16 10K
- R17 2K2
- R18 2K2
- R23 3K3
- R24 3K3
- R27 33K
- R28 33K
- R29 18K
- R30 18K
- R31 22K
- R32 22K
- R33 10K
- R34 10K
- R35 47
- R36 47
- R37 3K3
- R38 3K3
- R39 560
- R40 560
- R41 100
- R42 100
- R43 330
- R44 330
- R47 2.2
- R48 2.2
- R49 2.2
- R50 2.2
- R51 NTC
- R52 NTC

VARIABLES

- R7 470K
- R8 470K
- R19 20K
- R20 20K
- R21 100K
- R22 100K
- R25 100K
- R26 100K
- R45 100
- R46 100

CAPACITORS

- C1 200pF
- C2 200pF
- C3 68KpF
- C4 68KpF
- C5 100KpF
- C6 100KpF
- C7 8µF
- C8 8µF
- C9 8µF
- C10 8µF
- C11 22KpF
- C12 22KpF
- C13 22KpF
- C14 22KpF
- C15 10KpF
- C16 10KpF
- C17 68KpF
- C18 68KpF
- C19 125µF

- C20 125µF
- C21 100KpF
- C22 100KpF
- C23 125µF
- C24 125µF
- C25 125µF
- C26 125µF
- C27 820pF
- C28 820pF
- C29 125µF
- C30 125µF
- C31 250µF
- C32 250µF
- C33 2000µF

PHILIPS AUTOCHANGE stereo record player, model GF823 is housed in a simulated-walnut plastics case. It features a transparent top which can be hinged or lifted off altogether. DIN sockets are provided for connecting the two speakers which are housed in separate polystyrene enclosures with a walnut-effect covering.

Mains. 220-240V 50Hz.

Consumption. 30W.

Fuses. FS1 750mA. FS2 Thermal.

Transistors. Left hand channel, TR1 BC149, TR3 BC148, TR5 AC128, TR7 AC128, TR9 AC176. Right hand channel the same but even numbered, i.e. TR2-TR10.

Rectifier. BY164.

Pilot lamp. LP1 14V.

Output. 3W per channel (sine wave).

Speakers. 6in. diameter, dual cone, 8ohm per channel.

Outlets. Skt 2 and Skt 3 LH and RH

speaker outputs. Skt 1 tape LH pins 3 and 2, RH pins 5 and 2.

Inputs. Skt 1 tape LH pins 1 and 2, RH pins 4 and 2.

Record unit. GC047.

Cartridge. GP300.

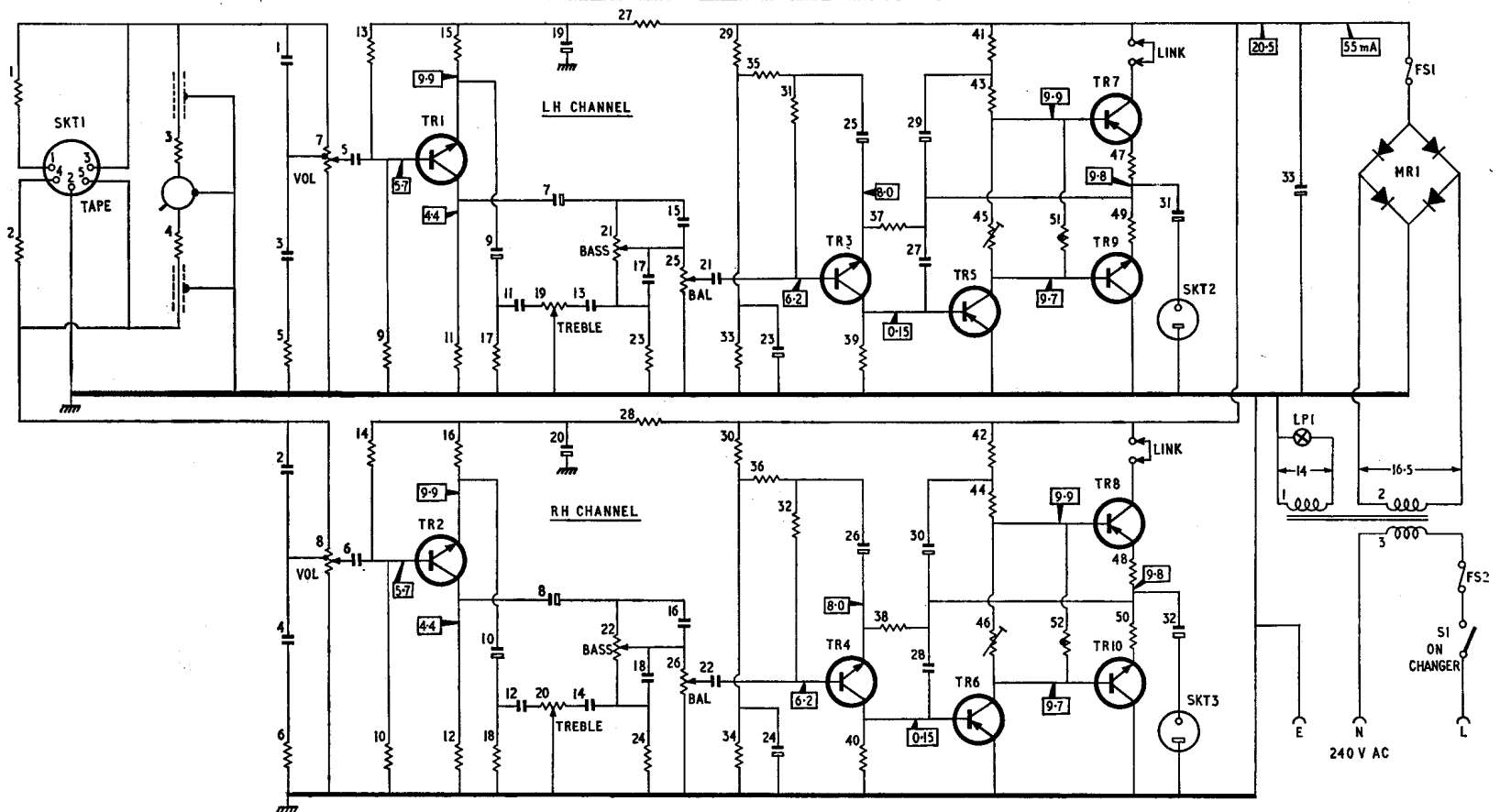
Dimensions. 13½ × 13½ × 6½ in.

Weight. 9lb 8oz.

Price. £47-80.

Manufacturer. Philips Electrical Ltd.

R	1	3	5	7	13	9	15	16	17	19	21	27	23	25	29	33	35	31	39	37	45	41	42	46	51	47	48	
2	4	6	8	14	10	11	12	18	20	22	28	24	26	30	34	36	32	40	38	43	44	43	52	31	32	33	50	
C		1	2	5		9	11	7	19	13	17	15	21	23	25	29	30		25	29	30					31	33	
L		3	4	6		10	12	8	20	14	18	16	22	24	26	27	28		26	27	28					1	2	3





Service department. Combined Electronic Services Ltd, 604 Purley Way, Waddon, Croydon, CR9 4DR. Tel: 01-686 0405.

DISMANTLING

Invert record player on a suitably protected surface and remove three long cheese-headed screws from base of case. Holding the two parts of the case together, turn the right way up and carefully lift off the autochanger. Early models had washers interposed between the autochanger and the case base; these must

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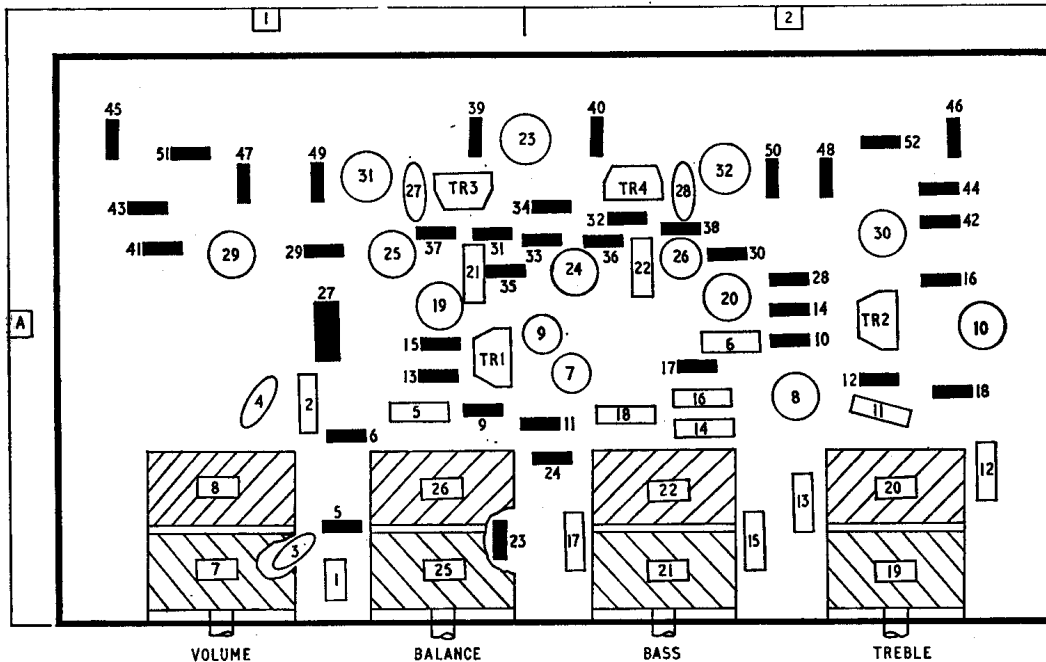
be replaced when re-assembling, if originally fitted. Remove control knobs and front plastic panel (two cross-head screws) for access to, or removal of, the amplifier panel. The power supply is fixed to the base of the case with four cross-head screws. Re-assemble in the reverse order, ensuring that leads are dressed away from motor and autochanger moving parts.

SERVICE NOTES

All voltages indicated on the circuit were measured under quiescent conditions with a 20,000ohm/V meter. They are negative with respect to chassis unless otherwise indicated.

Adjustment of R45, R46. Feed in a 1kHz signal in turn to the input of each channel, observe output waveform on a CRO. Advance volume control until clipping of the waveform occurs. Adjust R45 and R46 for symmetrical clipping of both peaks and ensure that output of each channel is the same.

Thermal fuse FS2. In order to avoid damaging a replacement fuse, a heat shunt should be used when re-soldering connections.



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