

# PHILIPS

# Model 624A

**General Description :** Six-valve (including rectifier and gramophone pre-amplifier), three-waveband auto-radiogramophone with three-speed Philips type AG1000 record changer, using separate pick-up heads for normal and microgroove recordings.

**Power Supply :** A.C. mains, 100-250 volts (six adjustment positions), 50 c/s. Consumption at 220 volts, 210 mA. (radio only).

**Wavebands :** S.W. 18.2-5.92 Mc/s.; M.W. 1622-517 kc/s.; L.W. 285-152 kc/s.

**Valves :** (V1) ECH42; (V2) EAF42; (V3) EBC41; (V4) EL41; (V5) EZ40; (V7) EBC41.

**Intermediate Frequency :** 470 kc/s.

**Scale Lamps :** Scale : two type 8028D-00 (6.5 volts, 0.3 amp.). Pilot : one type 8073D-00 (6.0 volts, 0.1 amp.). Player compartment : sign type, clear, 240 volts, 15 watts, S.E.S.

**Pre-amplifier and Tone Corrector Unit :** This is similar to that fitted to Model 622A.

**Valve Analysis and Alignment Procedure :** The information given for Model 622A will be found applicable.

## Capacitors.

C1-2	50 + 50 $\mu$ F.
C4	39 pF.
C5-6	11-500 pF.
C7	270 pF. (5%)
C8	1,800 pF.
C9	3-30 pF.
C10	72 pF. (2%)
C11	220 pF.
C12	470 pF.
C13	56 pF.
C14	68 pF. (2%)
C15	3-30 pF.
C16	3-30 pF.
C17	370 pF. (1%)
C18	47 pF. (2%)
C19	415 pF. (1%)
C20	1,800 pF.
C21	115 pF. }
C22	115 pF. }
C23	47,000 pF.

C24	0.1
C25	115 pF. }
C26	115 pF. }
C27	82 pF.
C28	12,000 pF.
C29	68,000 pF.
C30	8,200 pF.
C31	2,700 pF.
C32	10,000 pF.
C33	4,700 pF. (1000 v.)
C34	0.1
C35	680 pF.
C36	10,000 pF.
C37	270 pF.
C38	680 pF.
C39	50 (12 v.)
C40	0.22
C60	1,000 pF.
C61	47,000 pF.
C62	10,000 pF.

## Resistors.

R1	1200 (1 W.)
R2	12k
R3	8200
R4	0.82M
R5	33k
R6	33k
R7	1.5M
R8	56k
R9	47k
R10	1.0M
R11	12k
R12-13	0.05 + 0.45M (log.)
R14	1800
R15	0.12M (5%)
R16	50k (lin.)
R18	0.1M
R19	0.68M
R20	1k

R21	180
R22	12k (5%)
R25	2.2M
R26	1.0M
R27	4.7M
R28	1800
R29	8.2M
R30	1.0M
R31	0.68M
R32	33k
R33	0.22M
R34	0.1M
R35	0.56M
R36	0.39M
R37	2.7M
R42	27k (5%)
R43	5.6M
R50	4700

# Philips 624 A

PHILIPS

