

ALBA 3000 radio/record player

The 'Transistagram' is a portable record player incorporating a two-band a.m. radio tuner and employing 7 transistors and a diode. The waveband coverage is:

LW: 820-2,050 metres.

MW: 178-580 metres.

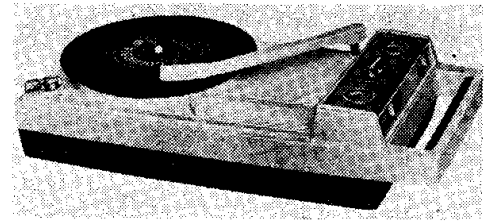
The semiconductor complement is 2SA202C mixer-oscillator, 2SA202 1st i.f. amplifier, 2SA202 2nd i.f. amplifier, 1S188 detector, 2SB186 pre-driver, 2SB186 driver, 2SB22/2SB22 push-pull amplifier. Maximum output is 600mW, 400mW for 10% distortion. Current drain is 11mA no signal,

140mA maximum, operating from six LPU2 batteries.

DISMANTLING

Pull off the wavechange knob. Remove the two self-tapping screws in the side opposite to the handle and remove the two machine screws in the recess in the bottom. The cabinet bottom can then be lifted off.

To remove chassis, remove the two machine screws securing circuit board to moulding and the four self-tapping screws on the control plate. The



RELEASE DATE AND PRICE

May 1967

18½ guineas

chassis can then be lifted out to the extent of the connecting leads.

ALIGNMENT

Set volume control to maximum. Connect signal generator to a transmitting loop. Keep generator output as low as possible to prevent a.g.c. action.

Switch to medium-wave and set pointer to 550m. Inject signal of 470kHz and trim T3, T2 and T1, in that order, for maximum output.

Switch to long-wave and set pointer to 2,000m. Inject signal of 150kHz and adjust L4 and L2 for maximum output. Retune receiver to 1,000m. and inject signal of 300kHz. Trim CT4 and CT2 for maximum output.

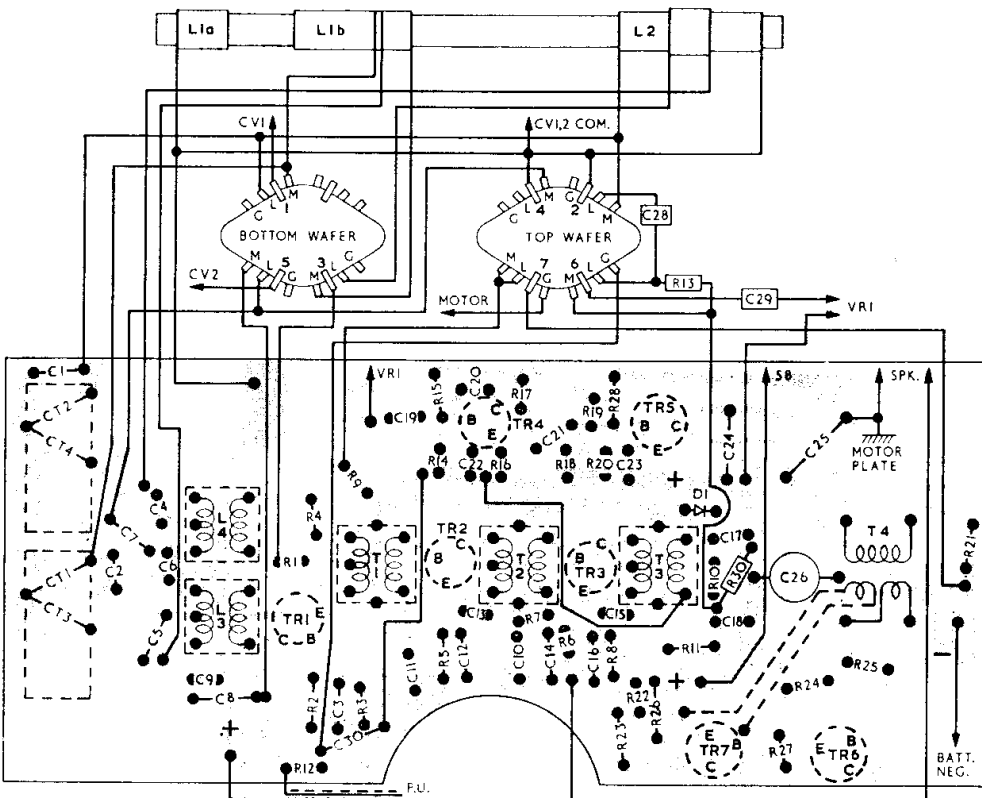
Switch to medium-wave and set pointer to 500m. Inject signal of 600kHz and adjust L3 and L1A for maximum output. Retune receiver to 200m. Inject signal of 1,500kHz and trim CT3 and CT1 for maximum output.

Repeat each of the above operations for optimum results.

Sensitivity checks

For 50mW output (with receiver tuned to 550m.) inject 470kHz via 0.001 µF capacitor to TR1 base (14 µV), TR2 base (90 µV), TR3 base (2.3mV), D1 (23mV). Inject 1MHz to TR1 base via 0.001 µF (2 µV).

Audio: For 50mW output on gram, 1kHz via 820pF to VR1 (75mV), with pickup disconnected.

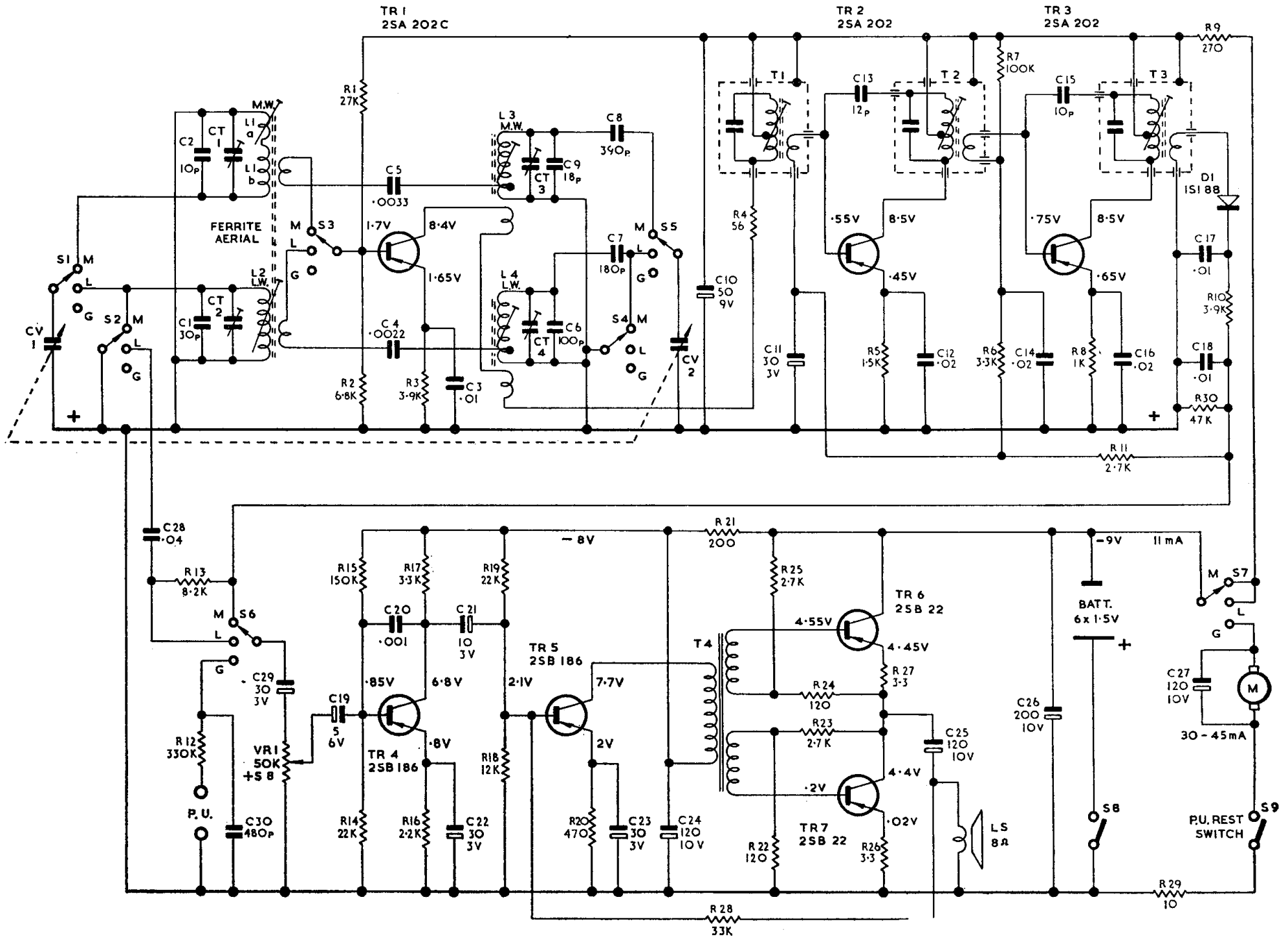


The printed circuit panel as viewed from the foil side.

quality range service for all your component needs



Radiospares



All resistors are $\pm 10\%$ except R13 and R29 which are $\pm 20\%$. The voltages shown were obtained using a 20,000 Ω/V meter, under no signal conditions.