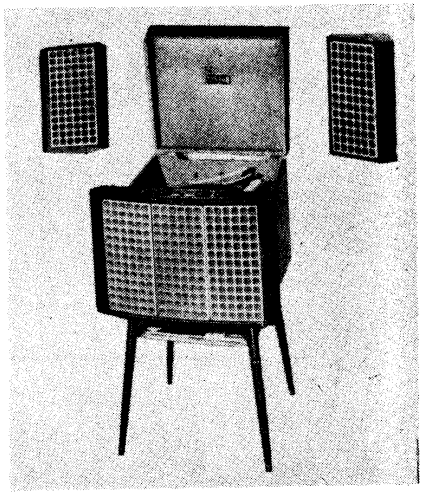
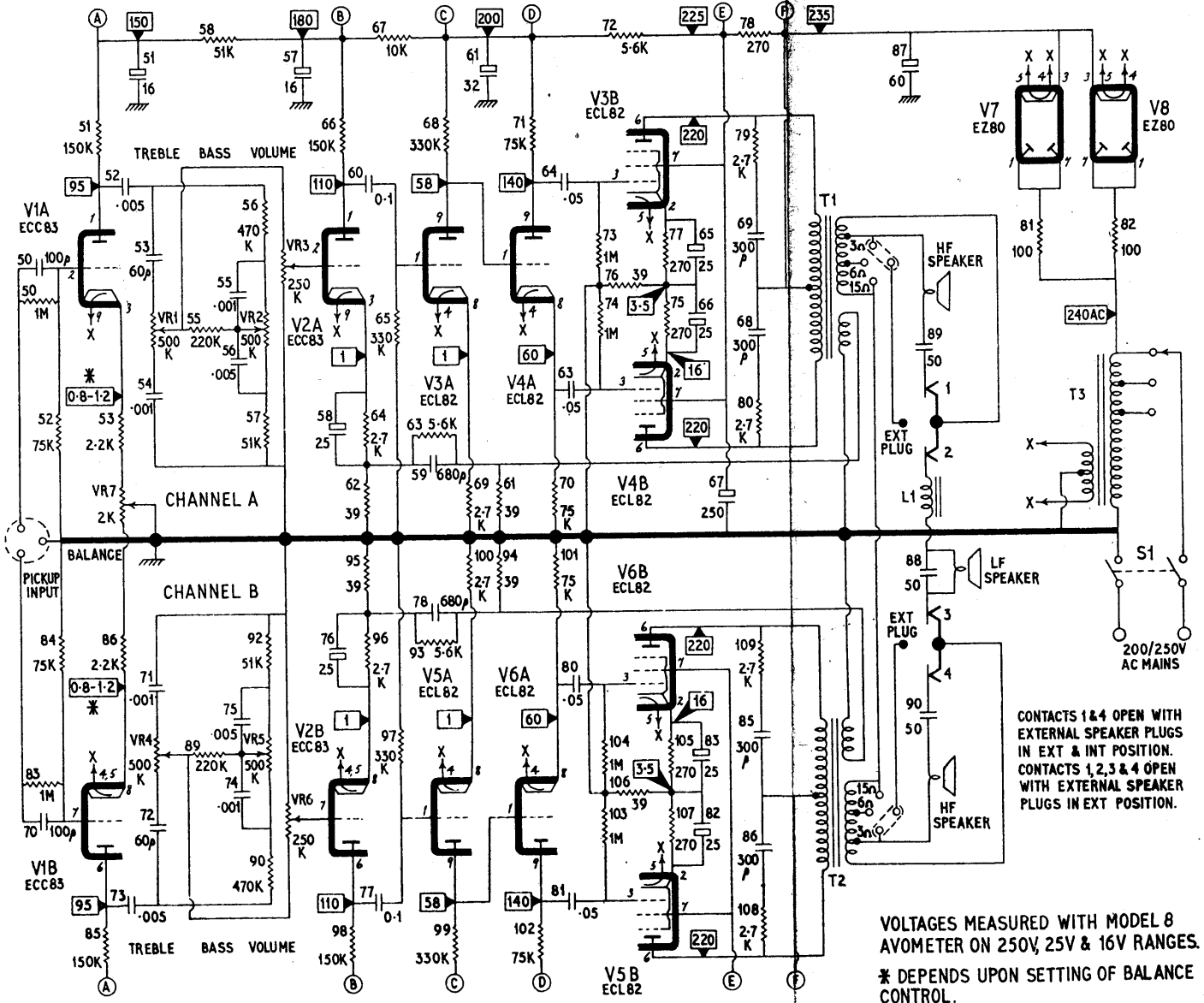
www.radio-workshop.co.uk

1165

'ERT' SERVICE CHART

DECCA STEREOGRAM SG188





CONTACTS 1 & 4 OPEN WITH EXTERNAL SPEAKER PLUGS IN EXT & INT POSITION. CONTACTS 1, 2, 3 & 4 OPEN WITH EXTERNAL SPEAKER PLUGS IN EXT POSITION.

VOLTAGES MEASURED WITH MODEL 8 AVOMETER ON 250V, 25V & 16V RANGES.

* DEPENDS UPON SETTING OF BALANCE CONTROL.

Consolette stereophonic or monaural record reproducer comprising twin five-stage amplifiers with push-pull output and negative feedback loop.

Released August, 1958, at 73gns. inclusive.

Manufacturer. Decca Radio and Television, 1-3, Brixton Road, London, SW9.

Service Department. 1-3, Brixton Road, London, SW9.

Voltage range. 200/250V AC 50c/s.

Power Consumption. 110W.

Power output. 6W each channel; total 12W.

Controls. Ganged separate controls for volume, bass and treble; separate on/off switch; balance control recessed in back panel.

Speakers. One 8in. moving coil; two 7 x 4in. dynamic elliptical. External speakers: two Decca ESS/1 units, 3ohms impedance.

Turntable. Garrard 121/MkII.

Pickup heads and styli. Monaural, Garrard GC8/PA, with Garrard GC8/3 (green coding) for 78rpm, and Garrard GC8/1 (red coding) for 33 and 45rpm. Stereo, Binofluid BF40 (stylus in red/opaque container).

SETTING UP

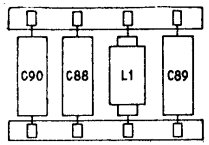
Cabinet assembly. Place unit upside down on soft non-scratch surface and screw four legs into threaded blocks mounted on cabinet underside, taking care to screw along angle of thread without undue force.

Transit. Record changer is clamped to motor board in transit by two plated screws at left and right edges of motor board. Screws are identified by labels and triangular washers. They should be completely removed before player is used and stored for future use if unit is to be moved again. Pickup arm is also secured to its rest and should be freed before operation or damage to changer mechanism may occur.

Mains voltage adjustment. Chassis of unit is directly

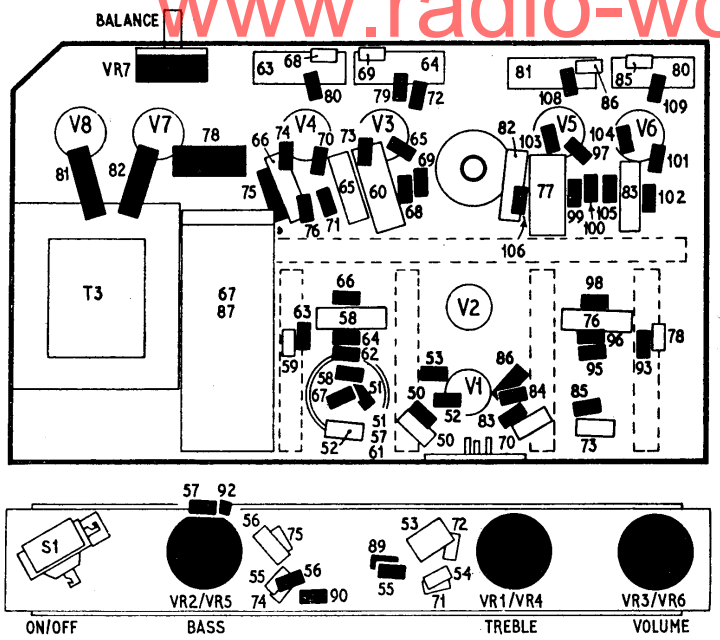
Continued overleaf

www.radio-workshop.co.uk



CROSSOVER NETWORK

Crossover network (above) is mounted separately from main chassis, underside lay-out of which is shown right



connected to mains supply and should be identified with neutral line. To check that setting of mains voltage selector is correct, lift autochanger clear of its spring mounting when mains tapping plug on mains transformer can be seen.

CHASSIS REMOVAL

Lift changer from cabinet and remove motor board and heat deflector panel. Access to chassis is then available and it can be removed after four 4BA securing bolts have been unscrewed, wires removed from mains socket, and four 4BA screws securing extension speaker panels removed from outside of cabinet. To gain access to control panel remove four control knobs and four 4BA fixing bolts.

Stylus replacement. Playing time of approximately 50 hours is suggested for each stylus, but stylus life depends considerably on record condition. Muzzy reproduction and tendency to jump grooves are signs that sapphire needs renewal.

To replace 78 rpm and 33/45rpm styli, grip oblong flap holding styli shank and prise assembly gently away from cartridge. New assembly is easily replaced with fingers. Ensure that shank is centrally mounted on spigot.

Sapphire in stereo cartridge is changed in similar manner, being lifted clear by prising up elongated endpiece with fine tweezers. Replacement stylus is easily centred on plastic strip.

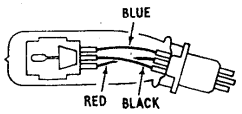
CIRCUIT DETAILS

Pickup. When stereo head is plugged in, separate outputs are each automatically fed to appropriate amplifier. Wiring of stereo head as shown must be adhered to for correct phasing. When mono cartridge is inserted, internal wiring in pickup moulding connects Channel A and Channel B inputs in parallel and signal is fed to both amplifiers.

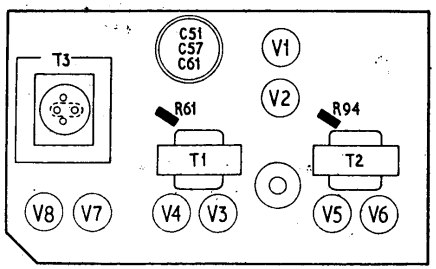
Feedback. Tertiary winding of output transformers gives approximately 24dB of feedback to cathode circuit of V2A and V2B. Balance control varies relatively amount of negative feedback to V1A and V1B and consequently relative amplification of each channel.

Crossover networks. Choke-capacity crossover network ensures that LF speaker handles lower frequency content of output from both channels, while medium and upper frequencies are fed from each channel to separate HF speakers via 50mF capacitors.

Extension plugs. With plugs removed, only internal speakers are driven. With plugs in "INT and EXT" position, only internal LF speaker is fed, plus two extension speakers. In "EXT ONLY" position all internal speakers are muted.

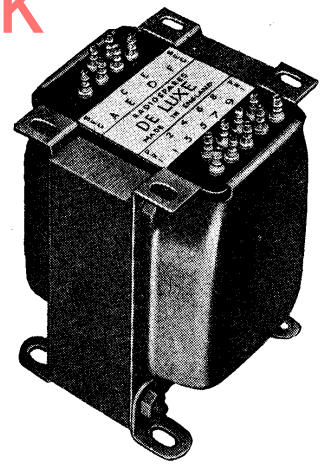


Wiring of stereo head (left) and top chassis layout (right)

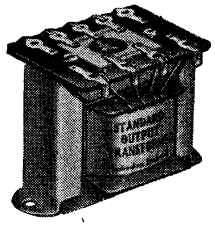


THE SERVICE YOU GIVE *depends on the service you get!*

Not only the speed of our deliveries, the quality of our products, but our range also counts! We produce 15 types of Output Transformers at present (including some "Exact Replacements"). All of them have been designed for service work and our range covers practically all your possible needs on the "Bench". Some of these are illustrated alongside. Of course, you know that our Catalogue, which, if you are a recognised member of our Trade, is readily at your disposal, will give you fullest details, not only of our Output Transformers, but also of the multitude of our other quality components. (All prices quoted are "Net Trade" prices.)

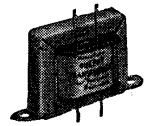


"De Luxe" Output Transformers for "Quality Performance"; for EL34, KT66, 6L6 etc.; "Ultra Linear" operation with 43% screen taps; grain-orientated laminations; price **58/- each.**



"Standard" Output Transformers for "Bread-and-Butter" jobs. 18 alternative ratios between 12½ : 1 and 80 : 1, at **6/6 each.**

Today's orders dispatched today
Keenest Prices
Every Component Guaranteed
Supplies to the bona fide trade only



"Miniature" Output Transformers for "Personal" Receivers; ratio 50 : 1, at **3/9 each.**

Radiospares Ltd.

4-8 MAPLE STREET · LONDON · W.1 · ENGLAND

Telephone: EUSton 7232-7

TELEGRAMS: RADOSPERES, WESDO, LONDON *CABLES:* RADOSPERES, LONDON

Printed and Published by ODHAMS PRESS LTD., London, W.C.2