

# SERVICE MANUAL

PORTABLE MAINS-OPERATED  
RECORD  
PLAYER **CB-8Q**



## "HIS MASTER'S VOICE"



### SPECIFICATION

**POWER SUPPLY:**  
240-250 volts, 50 Hz.

**CONSUMPTION:**  
Amplifier — 5 mA (no signal).  
Motor — 8 watts.

**SEMI-CONDUCTORS:**  
BC108—Pre-Amplifier.

BC186—Driver  
AC187 } —Push-Pull (complementary pair)  
AC188 }  
BY126/100—Rectifier Diode.

**OUTPUT LOAD IMPEDANCE:**  
27 ohms at 400 Hz.

**POWER OUTPUT:**  
More than 1 watt r.m.s.

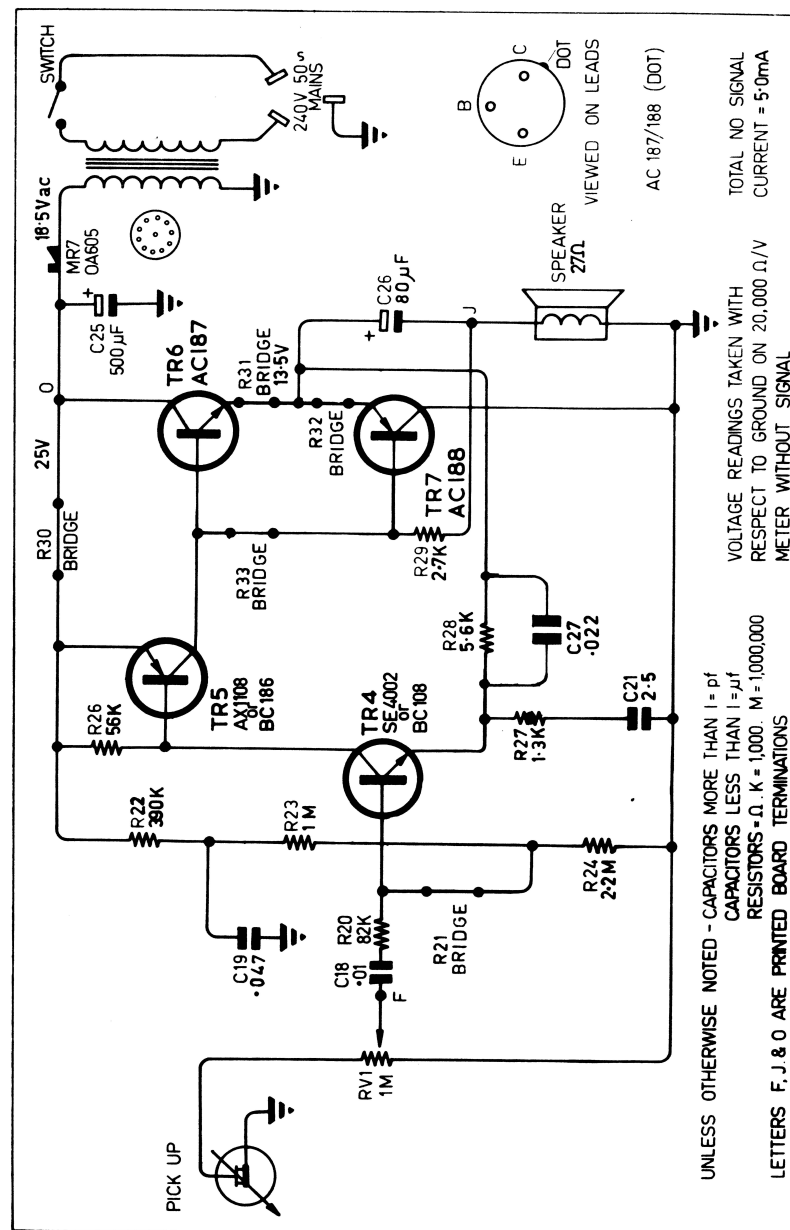
### PRODUCTION CHANGES

The circuit diagram and service information within this manual include amendments which have been affected since early production.

- Initially an X3M Cartridge and ST10 Stylus were used on model CB-8Q.
- Previously, R27 was 740-1141 5.6K  $\pm$  10%  $\frac{1}{2}$ W.  
" R28 was 740-0101 22K  $\pm$  10%  $\frac{1}{2}$ W.  
" C21 was 271-1071 0.22uF  $\pm$  20% Ceramic Disc.  
" C27 was 271-1571 0.0022uF  $\pm$  10% Type CY Ceramic.

These components were changed when the thermistor (R27) was added, to compensate for falling output from the crystal cartridge at elevated temperatures.

- A support bracket (148-7551) has now been inserted to prevent the plastic warping in the turntable bearing support. Further information on this bracket may be obtained from Service Divisions.



CIRCUIT DIAGRAM — CB CHASSIS