MODEL 148

8th March, 1953.

The following modifications have been made to Model 148, they should be read in conjunction with the circuit diagram.

The oscillator performance has been improved by changing the value of C13, altering the position of C14, and changing the values of R4 and R3.

C13 changed from 560PF to 525PF ± 2% mica. This is made up of 475PF ± 2%, and 50PF ± 1% in parallel.
R4 changed from 20K to 50K ½W, 20% carbon.
R3 " " 50K " 100K ½W, " "

Filament voltages have been improved by changing the value and position of R23 changing the position of R22 and adding R24 of selected value in parallel with the series combination of R16,17.

R23 changed from 1,000 to 500 ½W carbon.
R24 is to be selected from values of 50K, 30K, 25K, 20K all 1W 20% carbon, and fitted in parallel with R16 and R17.
Procedure is as follows:- Select resistor that will give 7.8 volts from Pin 7 of 3V4 and chassis. The limits are 7.8 yo 8.1 volts.

Associated with the change in value of R4, a change has been made in the voltage analysis table. It is:-
1R5 screen volts changed from 45 to 35.

New positions of components are as follows:-
R22, removed from its position across C28, between V5 and V3 heater, and fitted across C25 between V3 and V1 heater.
R23 removed from its position between V1 and V2 heater, and fitted between V2 and V4 heater.
C14 earthy side removed, and connected to the junction of R3 and C13.
The feedback has been removed, by connecting R8 (vol. control) to chassis, removing R13 and R14 and associated wiring and earthing one side of voice coil.
R12 should be removed from Pin 7 on V4 if connected and joined to chassis.