

CULL'S
96 TRAFALGAR ST.
PHONE 32 - NELSON

TECHNICAL INFORMATION

BULLETIN No. 128

May 1939

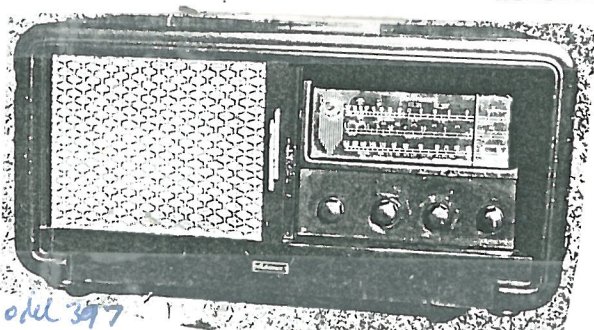
(TYPE)

SCHEMATIC DIAGRAM AND COMPONENT DATA

ON THE "GULBRANSEN" TYPE 397-A.W.

(31-5-39)

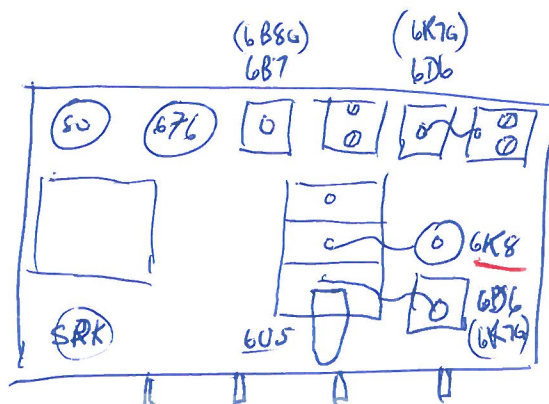
EFFECTIVE.



RECEIVED

COLLIER & BEALE LTD.

Model 397 S/N 16711



397 AN

COMPONENT LEGEND FOR "GULBRANSEN"
TYPE 397-A.W. RECEIVER.
(Refer Blue-print No. 280 attached)

- C-1 25-mfd. Cathode by-pass Condenser (output stage)
2 25 " " " " (1st audio stage)
3) 10 " High-tension supply Filter Condensers
4)
5 .25 " High-tension R.F. By-pass
6 .25 " Audio Decoupling Condenser, (1st audio stage)
7 .25 " Screen By-pass R.F.
8 .25 " Cathode by-pass condenser, (I.F. Amplifier)
9 .1 " Screen by-pass Condenser, (1st audio stage)
10 .1 " Cathode By-pass Condenser, (R.F. stage)
11 .05 " A.V.C. Filter
12 .05 " A.V.C. Filter
13 .01 " Audio Coupling Condenser, (2nd stage)
14 .01 " Audio Coupling Condenser, (1st stage)
15 .01 " Oscillator Supply (H.T. By-pass)
16 .004 " Fixed Padding Condenser (H.F. band)
17 .001 " High-frequency Audio Filter, (output stage)
18 .00025-mfd. Tone Control Condenser, (output stage)
19 .0001 " High-frequency filter, (1st audio stage)
20 .0001 " Diode load by-pass
21 .0001 " Oscillator grid condenser
22 .0005 " High-frequency Audio correction condenser
23 2,000-mmfd. Variable Padding Condenser, (H.F. band)
24 1,750 " Variable Padding Condenser, (M.W. band)
25 550 " Variable Padding Condenser, (B.C. band)
26 7-picofarad Oscillator Stabilising Condenser, (H.F. band)
T-1 to T-9 (inclusive) High-frequency Alignment Trimming Capacitors
- R-1 1-megohm Screen Dropping Resistor, (1st audio stage)
2 1 " A.V.C. Filter
3 1 " Tuning Indicator, (plate load resistor)
4 .5 " A.V.C. Filter
5 $\frac{1}{2}$ " Diode Load Resistor
6 .5 " Potentiometer, (audio gain control)
7 .5 " " (tone control)
8 .25 " Plate Load Resistor, (1st audio stage)
9 .25 " Audio-frequency correction Net-work
10 .1 " Decoupling Resistor, (1st stage A.F. amplifier)
11 50,000-ohm. Oscillator Grid Leak
12 20,000 " Oscillator Dropping Resistor
13 10,000 " Screen Dropping Resistor, (R.F. & I.F. stages)
14 3,000 " Cathode Bias Resistor, (1st A.F. stage)
15 1,000 " Feed-back Equalising Resistor, (M.W. band)
16 1,000 " Feed-back Equalising Resistor, (B.C. band)
17 600 " Cathode Bias Resistor, (1st R.F. stage)
18 500 " Cathode Bias Resistor, (output stage)
19 200 " Grid Suppressor, (oscillator stage)
20 150 " Cathode Bias Resistor, (R.F. & I.F. stages)

