TECHNICAL INFORMATION

BULLETIN No. 114.

(TYPE)

SERVICE DATA

FOR

6 AND 8-VALVE BATTERY RECEIVERS.

RECEIVER

COLLIER & BEALE LTD.

WELLINGTON

SERVICE DATA.

FOR

6 AND 8-VALVE BATTERY RECEIVERS.

These Receivers use two volt low consumption Valves in standard Superheterodyne circuits.

The circuits are conventional in every respect, and no special data, other than the blue prints supplied, should be necessary.

Lack of sensitivity is generally caused by variation in Tubes, and in any case of poor performance, the Valves should be checked first.

"B" Battery consumption will depend on a number of factors, which include state of the "B" and "C" Battery, strength of the particular Station tuned to, and to the Valves themselves.

If, for any reason, the "B" Battery drain is considered abnormal, the "B" and "C" voltages should be carefully checked. Always use the highest "C" voltage, consistent with satisfactory reception.

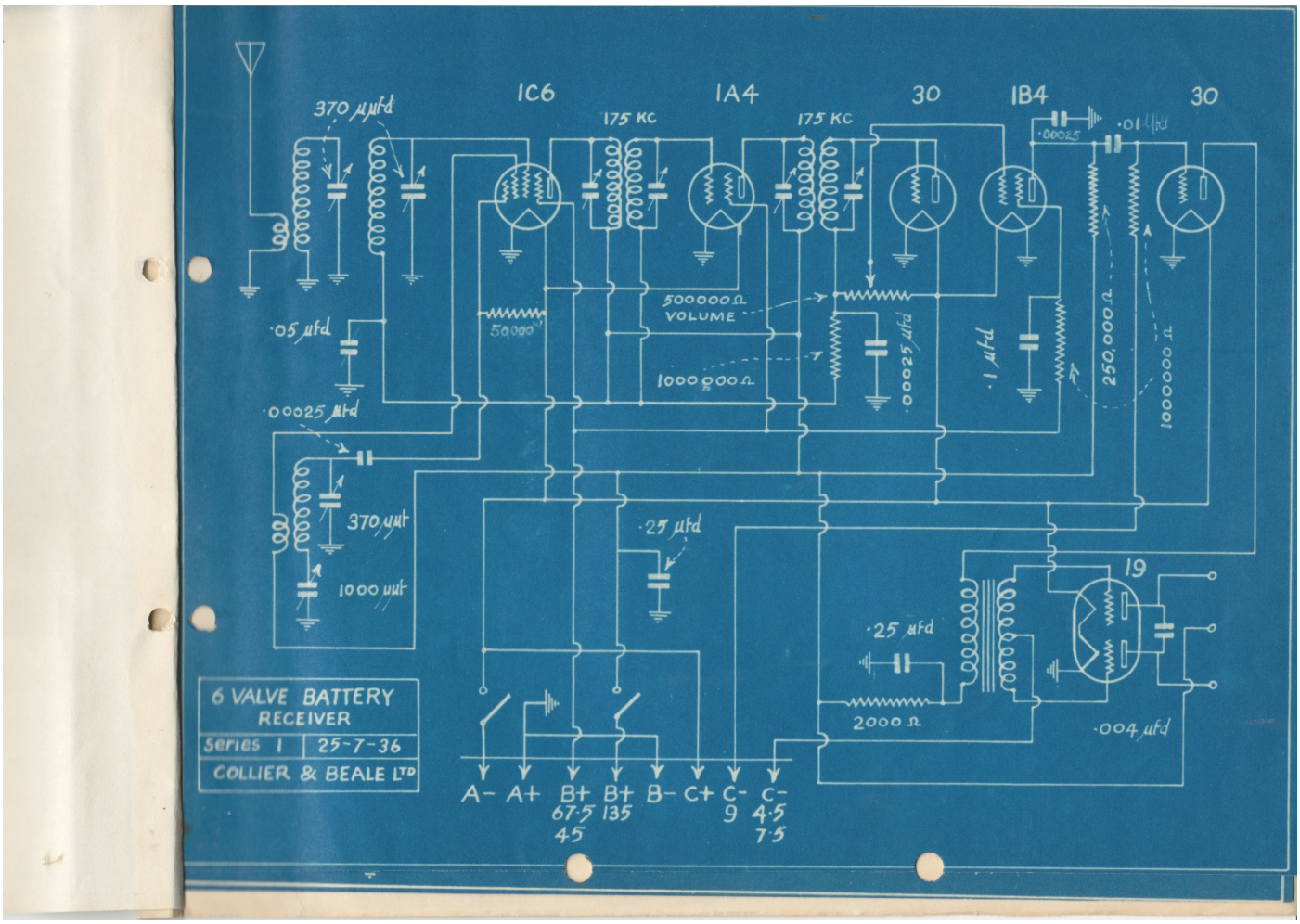
If, after checking the battery voltages, the drain is still considered high new tubes should be substituted, and the readings noted with a milliammeter in the high tension negative lead. In a large number of cases, considerable variations will be noticed.

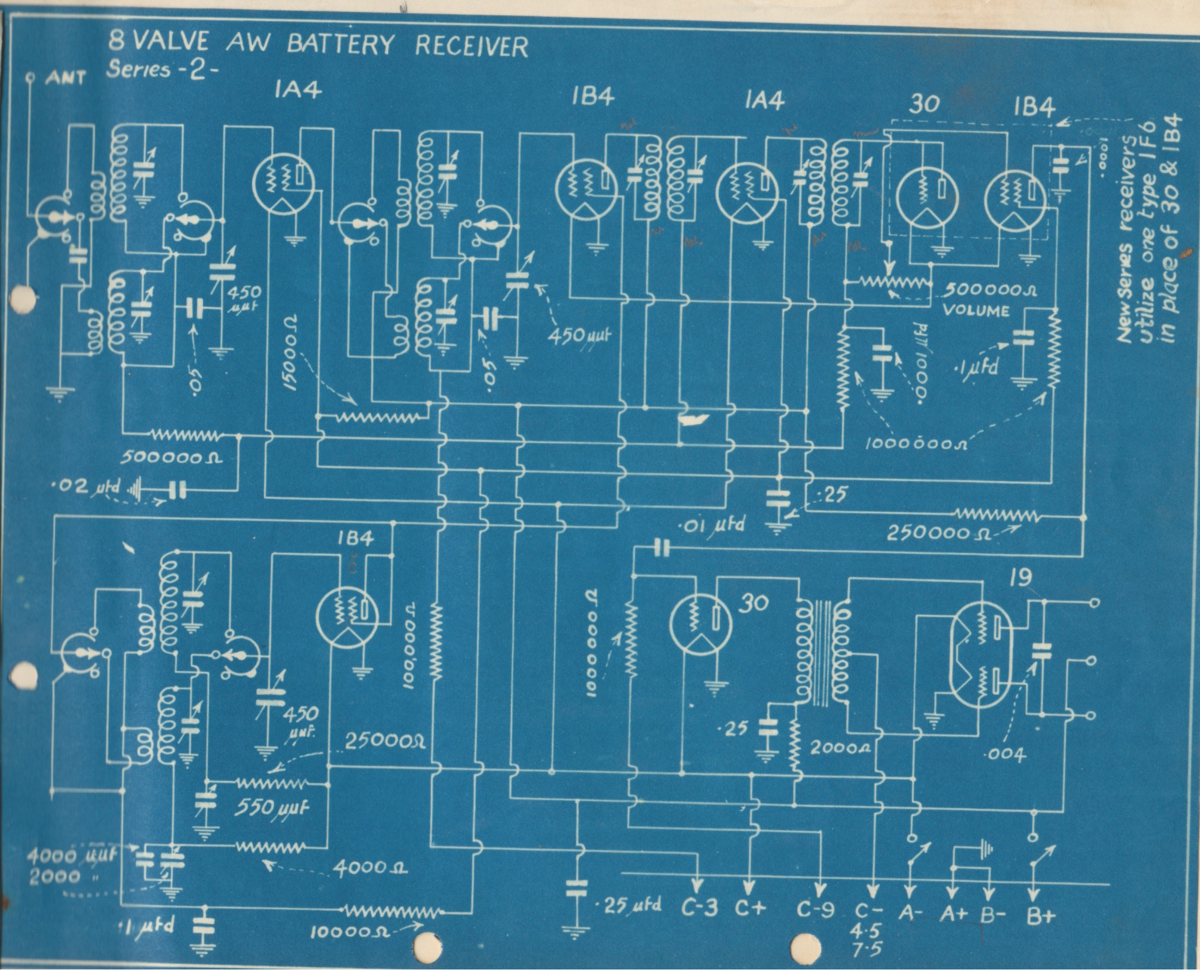
Under certain conditions, due to an inherent slight gas content the 30 tube used as an audio driver, may fail to function, due to isolation taking place, and yet draw considerable current. Switching the Receiver off and on a few times will confirm this by, in most cases, restoring the Receiver to a correct operating condition. The remedy in such cases is to replace the faulty tube.

Under the same conditions, the 30 tube used as a diode, may fail to rectify satisfactorily, and such should be replaced. Generally, if only slightly gassy tubes removed from this socket, can be quite satisfactorily used as an audio driver

COLLIER & BEALE LIMITED,
66 GHUZNEE STREET,
WELLINGTON, C.2.

28th July, 1936.


1C6
1A4
30
1B4
30
370 µµfd
175 KC
175 KC
·01 µfd
·00025
·05 µfd
·00025 µfd
50000
500000Ω VOLUME
1000000Ω
·00025 µfd
1 µfd
250,000Ω
1000000Ω
370 µµf
1000 µµf
·25 µfd
19
·25 µfd
2000Ω
·004 µfd
6 VALVE BATTERY RECEIVER
Series 1
25-7-36
COLLIER & BEALE LTD
A- A+ B+ 67·5 45 B+ 135 B- C+ C- 9 C- 4·5 7·5


8 VALVE AW BATTERY RECEIVER
Series -2-
ANT
1A4
1B4
1A4
30
1B4
New Series receivers utilize one type 1F6 in place of 30 & 1B4
450 μμf
·05
15000Ω
450μμf
500000Ω
VOLUME
·001 μfd
·1μfd
1000000Ω
500000Ω
·02 μfd
·01 μfd
·25
250000Ω
1B4
30
19
1000000Ω
100,000Ω
450 μμf.
25000Ω
550 μμf
·25
2000Ω
·004
4000 μμf
2000 "
4000Ω
·1 μfd
10000Ω
·25 μfd
C-3
C+
C-9
C- 4·5 7·5
A-
A+
B-
B+