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Ext 2201

Government Communications Headquarters,

Room No. E.0601

Our Ref. M/6682/112/2

Oakley, 8 10 31

Priors Road,

Cheltenham. Glos.

5th May, 1960

*original on file
8/2/3*

The Director,
D.S.B.
Melbourne.

Attention QE2 (Mr. R. Bailey)

Dear Robin,

I am now dealing with your order number 46 for INFUSE spares. As you know five chassis units (1 off chassis 04, 06 and 23, 2 off chassis 12/II) are required on this order, and I have been checking the drawings in readiness.

These drawings have not been modified since INFUSE was built and consequently are out of date. I have scanned all your letters to ascertain which of the modifications we suggested, you carried out. I therefore propose to supply you with chassis units as supplied on INFUSE but with the following modifications added:

- (a) +2 volts in place of earth on transformers.
- (b) 100 ohm anode stoppers in cathode followers
- (c) 18 kilohm resistors in cathode followers where 22 kilohm resistors were used.
- (d) to fit one 680 ohm and one 330 ohm damping resistors on retiming toggle type 82 transformers.
- (e) To fit 6.8 pf capacitors as 'speed capacitors' in bistable toggles.

We have changed the 10 kilohm grid stoppers on our bistable toggles to 27 kilohm and this has eliminated completely all our unreliability problems with counters and shift registers. We have also found that this makes the circuits more tolerant of 'aging' valves. Would you like this fitted to the chassis 06 and 12 on this order?

If there are some minor modifications which I have not mentioned and which you would like incorporated please let me know as soon as possible.

Yours sincerely,

(signed) G.C. Kingsley