Model H-100
Below Serial
No. 15,000

SUBJECT: SPORADIC CRACKLING NOISE

Crackling noise in Channel A, B, and/or Bass Channel, which occurs variously - during warm-up - while operating - or at turn-off, may be caused by defective decoupling capacitors in the 7199 stages of the Power Amplifier (A0-70-1).

These capacitors are C-332, C-350 and C-366. They are non-polarized types, rated at 20 MFD/50V.

It is assumed that tube replacement has been tried and that the instrument will be left "On" during the following tests.

In most cases the faulty capacitor can be detected by allowing the instrument to fully warm up, then removing the 7199 associated with the troublesome channel. Allow the tube to cool for about 10 seconds. If "turn-on" or "operating" noise is the symptom, you should hear the crackling upon reinsertion of the tube.

If "warm-up" noise is the problem, remove the 7199 from the noisy channel and allow it to cool completely before reinserting into the socket, or use a fresh, known good, tube. Run through the applicable test above at least twice to be sure of your diagnosis, then replace <u>all three</u> capacitors to avoid repeat calls.

The capacitors may be replaced by non-polarized local purchase items or from Hammond Organ Company (Part #407-080229), or by standard <u>polarized</u> types which are more readily available. Observe polarity when <u>polarized</u> replacements are installed. See sketch below.