Technical Bulletin

HAMMOND ORGAN
" music's most glorious voice "

May 19, 1966

TO ALL MAINTENANCE ENGINEERS — FOR IMMEDIATE ACTION

SUBJECT: FIELD ADJUSTMENT OF MANUAL ACTUATOR PUSHERS

NO. MODELS
36 All Drawbar
Types

In response to certain requests we have received for a service tool that could be used to expedite field servicing of manuals requiring minor actuator pusher adjustments, we have developed a simple jig which is enclosed with this bulletin. A photograph showing the manner in which it is used is attached.

This tool has been devised for adjusting manuals of all drawbar models, where certain harmonics are not heard, or where there is intermittent action either with a preset key or with a drawbar setting. It permits simple adjustment of the manuals so as to achieve a minimum safety dimension for actuator pushers for both white and black keys. New instruments you will be receiving, will be factory checked for minimum requirements.

1. On an operating instrument, pull out all drawbars.

2. Depress any key slowly. Note that harmonics come in as two, three or four tones, rather than as a full group of nine.

   Using the tool we will provide, check each key (white and black) as per photo attached. At least one harmonic should be heard by the time a white key has been depressed .062 of an inch (.047 for a black key).

3. If no harmonic is heard, actuator pusher adjustment is needed. Using a small screwdriver, force the pusher down slightly until the .062 (or .047) dimension is achieved. The dimension check should be taken 1/4 inch from the front of the key.

4. After making individual key checks, it is suggested that a board or stick of appropriate length be laid across the entire length of the keyboard, depressing all of the white keys at the same time. The Shifter is now oscillated from 8 to 9 times, and generally the situation with reference to intermittent contact is corrected. The same oscillation should be performed holding the black keys down, and then repeating the entire operation on the opposing manual.