

Technical Bulletin



HAMMOND ORGAN COMPANY
DIVISION OF HAMMOND CORPORATION
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TO ALL MAINTENANCE ENGINEERS - FOR IMMEDIATE ACTION

NO. MODELS

J-400

SUBJECT: LOW RHYTHM VOLUME

In order to improve (increase) the output volume of the built-in Auto Rhythm, proceed according to the following:

1. Lift upper left-hand end block assembly to expose P.W. board. Replace 82K resistor on board with 22K. Reattach end block assembly.
2. Disconnect plug attached to Auto Rhythm.
3. Remove organ top, and expose rhythm P.W. board by removing rhythm unit cover. Rhythm P.W. board will appear as in sketch on reverse side.
4. Remove shielded output lead from plug disconnected in Step 2, then attach plug to Auto Rhythm.
5. Connect oscilloscope lead to Auto Rhythm output lead (yellow lead inside unit).
6. Adjust TEMPO and VOLUME to maximum, SILENT/SOUND switch to SOUND position. Release all pattern selectors.
7. Jumper Track 1 to Snare Drum trigger input. Adjust Snare Drum potentiometer for $3V \pm .3V$ P-P output. (See sketch).
8. Move jumper to Cymbal trigger input (See sketch). Adjust Cymbal potentiometer for $3V \pm .3V$ P-P output.
9. Move jumper to Bass Drum trigger input (See sketch). Adjust Bass Drum potentiometer for $2.5 \pm .25V$ P-P.
10. Disconnect plug from Auto-Rhythm and reinsert shielded lead. Reattach Auto Rhythm cover and top of organ. Reconnect plug.

NOTE

If you have a +25V DC supply, Auto Rhythm can be adjusted as a bench procedure, without performing Step 4. Connect (+) side of supply to pin 4 of chassis connector, (-) side to chassis ground. Jumper pin 1 to chassis.