

*Order 5-2000 Service*

Service & Parts Dept.  The Lowrey Organ Company • 7373 N. Cicero Ave. • Lincolnwood • Chicago 46, Ill.

For Model(s): DSA  
 Schematic Ref: DSA #2  
 Date: July 1961

Subject: 1) Erratic Operation of First Divider Circuit of Tone  
 Generators F, F#, G, G#, A, A#  
 2) Erratic Action of Solo Circuit on All Generators,  
 Particularly "E".

1) Symptom: On tone generator chassis F through A# there may be erratic behavior of all tones except those of the very highest octave.

Cause: First divider couplet, Part No. P-8647-1, requires slightly more capacity on C-1 and C-3.

Corrective Procedure: On these six tone generators locate P-8647-1 couplet. Across terminals 3 and 4 of this couplet, install a .0012 mfd ceramic capacitor. Also, install .0012 mfd capacitor across terminals 6 and 7 of this couplet.

Production Change: Capacitors individually added to P-8647-1 couplet at first; then, later couplet, itself, changed to include added capacity internally. New Part No. P-8647-A1.

2) Symptom: Most likely failure will be lowest E on lower manual, but also, could include any one of first eightkeys, lower manual, or any one of first twelve on upper manual when using 16' stops.

Cause: Lowered keying voltage being applied to solo signal take-off element in tone generators.

Corrective Procedure: Note the P-6706 Solo Firing couplet in each one of the twelve tone generator chassis. Completely remove the No. 4 wire on all twelve of these. This releases the 1 megohm resistor to ground, increasing voltage.

Note: After clipping all of the No. 4 leads, it is advisable to read for possible DC leakage voltage at terminal No. 2 of all twelve P-6706 couplets. The organ should be "on", no keys depressed, and, when reading on a high voltage scale of a 20,000 ohm/volt meter, there should be no DC at terminal No. 2 of all twelve P-6706. If any do show any leakage, the P-6706 should be replaced. This is advisable because slight amounts of leakage would cause no problem when the original 1 meg resistor was in the circuit, but upon its removal, these slight amounts of leakage could cause a problem, either immediately or possibly later on.