ensoniq®

Service Bulletin #11

March 20, 1991

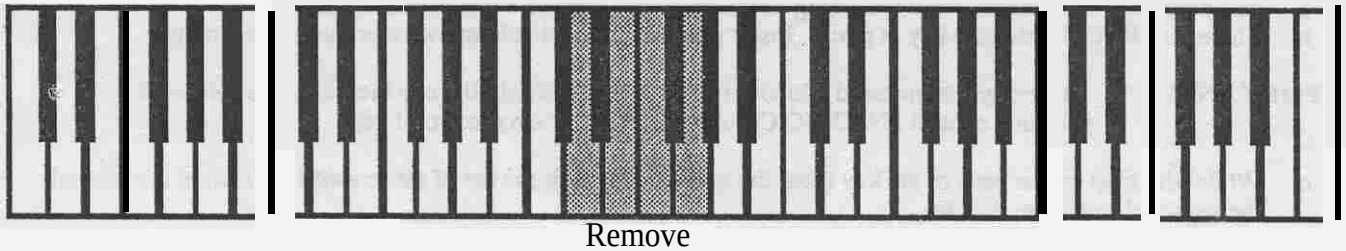
This Bulletin Covers:

- Soldering jumper wires between the two Poly-Key Keyboard Coil Boards that have a twelve-pin single row connector. (A twenty-pin dual-row connector was used after November 1990 and does not need to be hardwired.) **This bulletin should only be done after performing Service Bulletin #9B to ensure that the unit has the latest KPC version and resistors.**

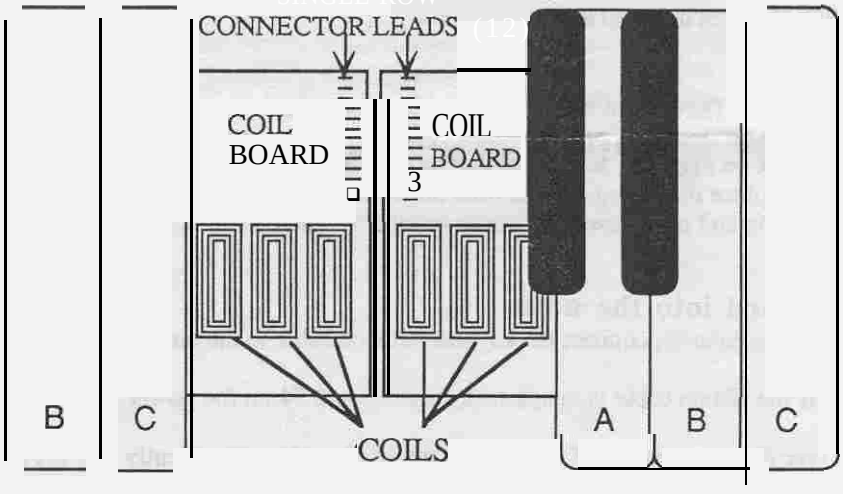
To form an absolute connection between the two coil boards, you **will** be hardwiring the coil boards together using the wires provided. You will need to remove the keyboard from the unit and then only remove six keys from the middle of the keyboard to expose the solder side of the connectors.

Tools Needed:

2.5mm hex wrench
Phillips screwdriver
soldering iron
small flat blade screwdriver
jumper wires from ENSONIQ
solder



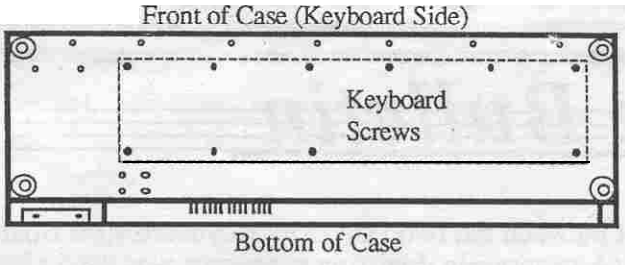
Remove these six keys



(over)

A. Remove the Keyboard from the unit

1) Remove all external cables connected to the unit. including the Power cord.
2) Using a 2.5mm hex wrench, remove the four (4) screws that fasten the control panel and raise the panel.
3) Place the unit upside down on a soft surface and remove the ten (10) screws that attach the keyboard to the case.



4) Carefully turn the unit right side op. Raise the control panel and disconnect the 20-pin keyboard ribbon cable from the main board. paying particular attention to the polarity.
5) Remove the keyboard from the case by gently lifting up the front of it while pulling it toward the front of the unit Once the rear of the keyboard has cleared the control panel mounting tabs, the keyboard can be removed from the keyboard cavity.

B . Remove Middle D through G Keys from the center of the keyboard (see figure on p. 1)

1) Place the keyboard with the keys up on a level surface.
2) Remove the key springs:
   a. Insert a small Phillips screwdriver all the way into a key's spring.
   b. Push down to expand the spring, then move the bottom of the spring away from the keyboard. Be sure to put the springs in a safe place. they have a tendency to roll!
3) Remove the keys to expose the coil board connectors (white keys first):
   a. Just below the key number (near the spring hole) on the key there is a rectangular opening.
   b. There is a clip that holds the key in place. Insert a small/thin flat blade screwdriver into the opening.

IMPORTANT! These clips do not need a lot of pressure to be released. If a clip breaks due to too much pressure, contact ENSONIQ Customer Service for a replacement key.

   c. While lifting up on the back of the key (near the spring hole) push the top of the screwdriver toward the back of the keyboard to release the clip.

C. Solder the connector leads together

1) Hardwire the connector leads together (horizontally).
   a. If there are two rows of leads on each board, do not solder them together. The twenty-pin dual-row connector is a better connector and does not need to be hardwired.

D. Reinstall the keys:

1) Put the black keys on first. They go on where there are single keystops.
2) Place the front of the key on first, then press the back of the key down until the clip catches and holds it in place.
3) Place the white keys back on in order. Make sure that the clip for each key is engaged.
4) To reinstall the springs, place the spring into its hole on the key (open side up). Insert the small/thin Phillips screwdriver into the spring and push down and out to expand it. Then move the bottom the spring into the keyboard frame.

E. Install the Keyboard into the unit

1) the

IMPORTANT! mispinned, F3 the

2) Insert the keyboard rear first into the unit at the front of the keyboard cavity. Gently slide the keyboard toward the rear of the unit, lowering the front of the keyboard as needed to clear the control panel mounting tabs. Lift the keys slightly to be sure that the keyboard cable lies flat beneath the keyboard and is not pinched under the keyboard frame.
3) Turn the unit upside down on a soft surface and replace the ten (10) screws that secure the keyboard to the case.
4) Power up, test the unit, and close the control panel.