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Reproducing System

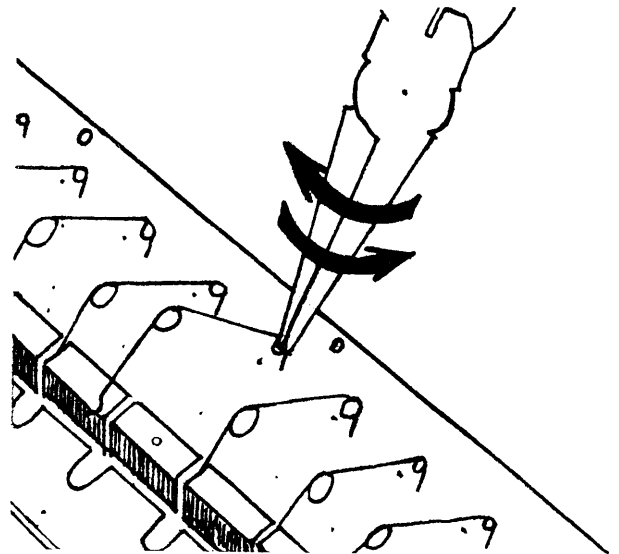
SERVICE BULLETIN

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subject PROBLEMS WITH KEYSWITCHES AND THEIR SOLUTIONS	
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PROBLEMS ENCOUNTERED WITH KEYSWITCHES AND THEIR SOLUTIONS

This bulletin is written to assist in the elimination of many of the problems experienced with keyswitch alignment. The following have been found to be causes of double-notes, erratic play, etc.

1. The keyswitch boards have not been properly centered under their respective keys. Those striking the key's underside too close to the edge often slip out and get caught between keys. The switch becomes bent and ends up jammed in its bushing. The note then either plays all the time or never plays. You can correct this condition by re-aligning the keyswitch boards horizontally under the keys.
2. The keyswitches, while being aligned, have been bent to one side. Looking down on the keyswitch, the wiper will be seen to be slightly jammed in its plastic guide slot. This condition will cause random double-notes. You can avoid bending keyswitches to one side if you hold your soldering aid adjustment tool as close as possible at right angles to the keyswitch's stem. To correct a bent keyswitch, gently straighten the keyswitch at the stem.
3. The keyswitch is torqued in its plastic guide slot. This condition is not apparent upon first inspection of the keyswitch boards. To spot it, carefully lift each keyswitch wiper up onto the top of the dust cover. Each wiper should stand directly over its slot. If it twists off to one side when the switch is lifted, the switch is torquing. Using a pair of needle-nosed pliers gently twist the stem and small loop until the wiper remains standing over the center of its slot when released. This procedure will eliminate most of your phantom double-note problems.



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4. *The keyswitch rail is too low. When this condition exists, the keys click on the switches when they are depressed, and there is less downward force applied by the keyswitch wiper to the contact foil. Random double-notes will begin to appear as the board ages. This is because the wiper is unable to wipe (ie. clean) the foil. Correct this condition by raising the keyswitch rail and re-aligning the keyswitches. It is perfectly acceptable to have a keyswitch make contact with the underside of its key when the key is at rest. Your keyswitch rail should not be raised so high that the keys click on the plastic guide.*

5. *Keyswitches are aligned directly below a notch cut in the keys. Alignment is nearly impossible. Correct this condition by re-installing the keyswitch rail, and then by re-aligning the keyswitches.*