

## ***Changing the FSR Sensors on the drumKAT***

1. **Unplug** the drumKAT power cord from the wall.
2. Remove the back cover.
3. Carefully disconnect the beeper and the transformer from the bottom left side of the circuit board. They are encased in the white plastic. Lift lip and pull out connector.
4. Disconnect the white plastic 9-pin connector that connects the back power section to the printed circuit board, if applicable. This is done by firmly prying the two halves of the connector apart. Do not pull on the attached wires.
5. Disconnect the 15-pin ribbon connector in the center of the board by gently but firmly pulling up on the ribbon using thumb and first finger (both hands). You are disconnecting this from the board.
6. Directly under and to the left of the 15-pin ribbon connector that you have just disconnected, you will see the keyboard connector. Slide the keyboard connector off of the pins on the circuit board to release it from the board.
7. Now remove the 9 screws holding the circuit board in. Carefully lift up the PC board and feed the 15-pin connector and the keyboard connector through the hold in the circuit board.
8. Remove the circuit board.
9. Turn the drumKAT over and remove the 6 side screws holding the outer metal frame. Remove the metal frame. Remove rubber.
10. You are now looking at the FSR sensor. Make a mental note of its position on the drumKAT metal. Note that the sensor is basically centered on the metal chassis and that the keyboard edge under the display lines up with the "tail hole slot" in the metal. You will need to reinstall the new FSR sensor in the exact same location. Remove the old FST sensor by prying up at one corner and peeling it off of the metal chassis.
11. Clean the top of the drumKAT metal with isopropyl alcohol. This will get rid of any residue left from the previous FSR adhesive. Wipe off any excess alcohol from the drumKAT surface.
12. Tear off a middle section of the paper backing on the New FSR sensor. Turn over the FSR so that the adhesive side is towards the metal. Feed tail fully through the slot in the metal.
13. Line up the center of the FSR with the center of the display. Line the FSR up squarely and evenly on the metal.
14. Starting from the center of the FSR, press the sensor firmly onto the metal, and smooth out the FSR to top and bottom. This allows you to remove any air pockets that may otherwise be trapped between the FSR and metal. Before removing the remainder of the paper backing, make sure that the FSR is completely centered by putting your rubber mat over the FSR. This must line up with the display section and the bottom and side edges with the metal.
15. Without moving the position of the rubber, lift up the bottom center of the rubber and make sure that the center dividing line between pads one and two lines up with the dividing line on the FSR between pads one and two.  
When everything lines up, remove the rubber and lift one side of the FSR and remove its paper backing.
16. Gently smooth from center to side to assure all air is removed.
17. Remove the backing on the other side and repeat procedure.
18. Replace rubber mat.
19. Replace the metal frame, and insert screws.
20. Flip drumKAT over. Remove small piece of adhesive backing found on the tail of the FSR. Gently slide the part of the tail nearest the hole under the display so that the adhesive holds the tail there.
21. While holding the circuit board in your hand, feed the 15-pin display connector and the keyboard connector up through the board. Now lay the circuit board down inside the drumKAT chassis. Adjust the position of the board (especially where the jacks align with the holes in the back) so that the holes in the board align with the standoffs of the chassis so that you can insert the screws. Screw the circuit board in.
22. Reconnect the 15-pin display connector, the keyboard connector and the 9 in power connector to the board. Slide the two 3-pin white plastic connectors (for the transformer and beeper) back in.
23. Replace the back cover.