

## 685 Acknowledgement and Kiss-off Frequency Adjustment

Note: Test the frequencies first. See Acknowledgement and Kiss-off Frequency Testing.

1. Check for incoming calls. (See Figure 1) Note the ACTIVE L.E.D. on the face of the 685. It must not be active or the current message that is being transmitted will be cut off. Wait for the led to clear before performing this test. It might be necessary to wait until a less busy time of day to perform this test.
2. Display the two frequencies by pressing System Reset (small button in the flip-down drawer) and System Test (larger black button on the face of the receiver) AT THE SAME TIME. When both are pressed, release the System Reset button ONLY (while still pressing the System Test button). After you release only the System Reset button (in the flip-down drawer), the two frequencies of the receiver will be displayed immediately. If they don't display, repeat this step from the beginning. When the two frequencies show up in the left-hand display, you can let up on the System Test button. The frequencies will remain in the display until the System Reset button is pressed again, and released.
3. The two frequencies displayed are the 2300Hz and 1400Hz tones. Each of these frequencies must be within 10Hz. The 2300Hz frequency should fall between 2290 and 2310. The 1400Hz frequency should fall between 1390 and 1410. The closer these frequencies are to 2300Hz and 1400Hz, the better the digital communicators will hear the tones.
4. Locate the Memory Board. The frequency adjustments are found on the left-hand edge of that board. The Memory board is the 3rd slot from the front of the machine. The board is NOT removed to perform this adjustment. See Figure 2.
5. See figure 2 for the placement of the potentiometers (Pots). The pots come from the factory with a sealant. The seal must be broken to move the pot adjustments. Care needs to be taken for this process. Too much pressure will damage the printed circuit board. Use a small blade screw driver or some other object capable of breaking the seal.
6. Adjusting the frequencies is performed by turning the pots in very little increments, and then waiting approximately 5 seconds for the adjustment to 'take' and settle down. Clockwise rotation increases the frequency. Repeat the procedure for both frequencies. The goal is to get both the frequencies within 10Hz of proper frequency
7. Once the frequencies are adjusted, simply reset the machine by using the System Reset button in the flip-down drawer. See figure 1.

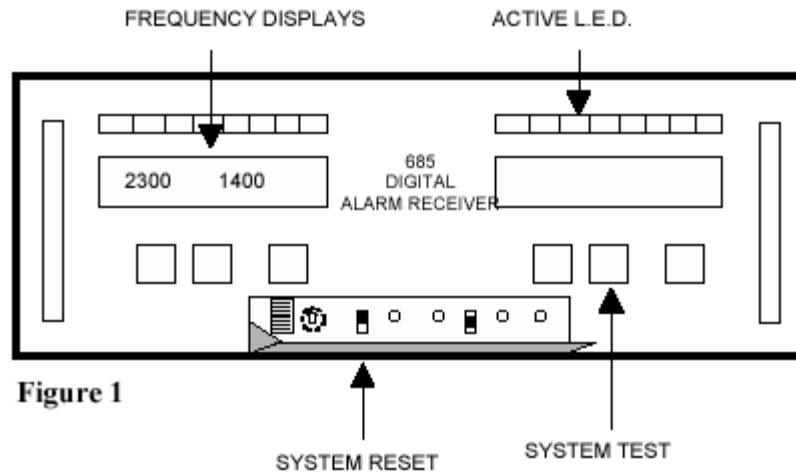


Figure 1

2300Hz adjustment pot

1400Hz adjustment pot

Figure 2

