

CONCEPT 1 Moving Fader Calibration Utility

Introduction

The CONCEPT 1 Moving Fader Calibration Utility allows users and service personnel to readjust the Moving Fader servo boards in the field. The need for servo board adjustment is indicated when the Physical Fader screen bar no longer matches the position of the Moving Fader knob. This may be seen as either a small positive offset on screen when the fader is pulled all the way down, or if the screen bar drops back down as the fader is pushed to the top.

The Moving Fader Calibration Utility involves adjustment of the fader position pot, accessible from beneath the console.

NOTE: This utility does not cover adjustment of the Moving Fader touch sensor, and no such adjustment should be attempted. If there is a problem with the fader Touch Sensor please contact Otari Technical Support.

This utility is as a part of the C1 Version 2.02 software release. The utility is already installed in V2.0.2 Follow the “Operation” procedures below to use it. Customers not currently using C1 Version 2.02 must upgrade to be able to use this utility.

Operation

Moving Fader calibration involves adjusting trimmer pots at the bottom of the moving fader servo board enclosures (cans). There are two trimmers located on the servo card. The position adjustment trimmer is the one closest to the front edge of the can (bolster side of console). The moving fader cans can be viewed by lowering the access doors beneath the C1 console. You may need to move aside some ribbon cables to see the CHAN path moving fader cans. A standard screwdriver with a 6" long shaft and 3/32" tip is needed to adjust the Chan path trimmers. The shaft of this screw driver should

NOTE: Remember, the Console is Powered ON when this procedure is done. It is highly recommended that the shaft of the screwdriver be covered with a non-conducting material to protect from accidental shorting of devices.

Once you have provided access to the moving fader trimmers, follow these steps to perform the calibration:

1. Boot your console fully and view the Console Fader screen.
2. Note the location of all paths requiring calibration.
3. Enter the DISKMIX main screen and quit DISKMIX to return to DOS.
4. Start the utility by typing "CALFAD.BAT" at the DOS prompt.
5. Place the console in Solo Interlock mode and press the "T" key on the console or PC Server keyboard to allow servo calibration.
6. Move all faders to the bottom limit of travel.
7. Select the path you wish to adjust by pressing the SOLO button on that path, then touch the path's fader knob. The PC Server's speaker will begin emitting a tone pitched proportional to the moving fader position value. You will also see a number displayed on the PC screen representing the moving fader position. The tone will drop low in pitch whenever the touch sensor is triggered. This does not indicate a problem unless the pitch is always low. Use this touch indication to verify you are adjusting the correct path being displayed on screen.
8. Adjust the position trimmer (see above for location) for the highest pitch on the PC speaker. The PC screen should show a value between 998 to 1002, with 1000 being the perfect adjustment value.
9. Repeat steps 7 through 8 for all paths requiring adjustment.
10. When all paths have been adjusted press TAB to exit the calibration utility and reboot the console. Follow steps 1 through 10 repeatedly until all faders are within calibration.