

Procedure Status Input Module Pan-Kill Adjustment

Symptom Left-Right Pan X-Talk noticed on independent Input Module to either Stereo Bus or any pair of Track Bus Outputs

Required Tools #1 Phillips Screwdriver, Set of Input Module Extender Cables (OMC PN#EXT-CBL-STATUS), Standard insulated Trim-Pot Adjustment Tool (for miniature Potentiometer), Precision Audio Signal Generator, precision Audio Analyzer capable of reading signal down to -90dBu (or Vrms meter capable of reading signals as low as 24uV or better), Anti-Static Mat.

WARNING! The Input Module contains static Sensitive Components. Use Anti-Static Precautions when handling Input Modules and Components!

Preparation

(Console Users)

1. Power down the Console.
2. Remove the front and rear module screws that fasten each Input Module to the mainframe.
3. Remove the module by lifting up the panel by the front and rear edges.
4. **Moving Fader Consoles:** Remove 10 pin Servo Cable from P1 of the Servo PCA located under the Mix Fader.

Adjustment Procedure

1. Lay the Input Module onto an anti static mat placed on top of the console within close proximity of the modules proper location.
2. Connect the Female end of one of the Input Module Extender Cables to P6 on the Input Module (64 conductor, PC style edge connector of module located towards the back end of the module) and insert the other end of the Extender Cable into the corresponding connector on the Mother Board.
3. Connect the Female end of the other Input Module Extender Cable to P5 on the Input Module (64 conductor, PC style edge connector of module located towards the front end of the module) and insert the other end of the Extender Cable into the corresponding connector on the Mother Board.

CHANNEL PATH PAN-KILL ADJUSTMENT:

4. Inject a 20kHz sine wave (@+20dBu) into the Line Input of the module.
5. De-assign all Input Modules from the Stereo Bus except for the module to be adjusted.
6. Set the Channel Pan-Pot full CCW. Observe and verify signal level at Stereo Bus Insert Send Left Channel (either @P'Bay or on rear of console for non-P'Bay users).

7. Set the Input Gain and fader level for Unity Gain (+20dBu as measured at the Stereo Insert Send)
8. Set the Audio Analyzer to measure dBr (+20dBu=0dBr) or note the level on the meter.
9. Set the Channel Pan-Pot full CW. Observe signal level on the Audio Analyzer: If signal is >-65dBr or "less than 65dB down from input level" the module needs to be adjusted. If not go to step 11.
10. Adjust VR23 (located under IM Meter PCA next to Channel Pan-Pot) for the lowest possible level as seen on the Audio Analyzer.
11. Observe signal at Stereo Insert Send Right Channel (Channel Pan-Pot should still be set CW). Set reference (+20dBu=0dBr).
12. Set Channel Pan-Pot full CCW. Observe signal on Audio Analyzer. If signal is >-65dBr, adjust VR24 (located to the right of VR23) for the lowest possible level.

MIX PATH PAN-KILL ADJUSTMENT:

13. Inject signal into the Tape Input of the Input Module.
14. Repeat steps 5 through 12 using the Mix section of the module (substitute VR23 for VR25 and VR24 for VR26). VR25 and VR26 are located right behind the Mix Pan-Pot.

***Re-assembling
Input Module***

1. Power down the Console.
2. Align rear of module with rear bracket of frame making sure P6 of module is properly aligned with connector on Motherboard. (**Moving Fader Consoles:** plug 10pin servo cable back into P1 of servo board on Input Module)
3. Start inserting rear of module into Motherboard while aligning front connector P5 into appropriate connector on Motherboard. When all connectors are aligned push Module evenly into Motherboard making sure full insertion is made.
4. Re-install front and rear screws.