

Issues

1) AH mixer 'Mono' output physically, electronically broken – cable stepped on? Marked w tape at mixer, on docs.

Fixed:

- RevA's Sennheiser EK100 receiver at stage (!) |at mixer: Hum in output, especially when not powered on, using Senn. CL-100 cable. Research: receiver output is unbalanced, ring on 3.5mm-TRS N/C. **Fix:** remade cable w ¼"-TS-M at mixer end, plug into line input at mixer.
- Radio station (KSCO 1080 AM) w nearby antenna heard intermittently through 2 different instrument amps on stage; heard in PA as well, Channel 3 worst. Mixer etc. not on same AC circuit (breaker 8A) as power amp (3B) – ground loop.
Ran green ground wire from outlet near mixer to outlet near amp; isolated amp outlet from metal mount box.
1/9/20: Remade all ground connections at spike near meter and cold-water stub nearby; many were loose and/or not metal-metal.
Plugged musician's instrument amp that exhibited problem into three different AC outlets – no help.
- QSC amp monitors channel (Ch1) 'volume' control not passing signal at some settings - dirty pot? Sprayed out both potentiometers w DeOxit 12/19/19.
- Wireless gear found in cabinet – FCC disallowed 600->700MHz range– removed, replaced.
Hamilton-Buhl ALS-600 VHF Assisted Listening System (in its case in cabinet)
Audio-Technica ATW-R250 VHF receiver , Audio-Technica ATW-T201 transmitter
https://www.fcc.gov/operation_of_wireless_microphones.pdf
- Headphone amp input was erroneously wired from balanced output, so headphone right vs left were 180-degrees out of phase.
Corrected: AH mixer 'B' output (unbalanced ¼"-TS-F) -> Behringer HA400 headphone amp. Unbalanced ¼"-TS -> ¼"-TRS w Tip jumpered to Tip and Ring made to feed both sides, cable clearly marked. Installed, tested.
- Micro-TRS-plug cable marked 'iPhone, laptop etc.' -> AH mixer 'Stereo Return 2' input, would go to mains OR monitors (associated switch is either, not both), which will not work for 'karaoke' type usage by renters. Switched to 'Stereo Return 1' input.
- Monitor system sounded 'hollow' when mains on as well. Monitor system had phase-reversal (pins 2 & 3 swapped) XLR-M->1/4"-TipRingSleeve cable between mixer output and EQ input – replaced w standard-wiring XLR-M->1/4"-TRS cable. Marked phase-reversed (blue jacket) cables (2 found) as such, removed from cabinet.
- Incorrect cable / signal level used between Shure PGX4 wireless receiver and mixer input. Replaced incorrect cable (TS in unbalanced output to mic-in of mixer) w correct cable (XLR-M to XLR-F, mic out to mic in)
- Mixer headphone output used for hearing support system – changed input to Assisted Listening system (see next item). (Mixer headphone output intended for signal monitoring by sound tech).
- Snakes: wiring somewhat jumbled (example: Stage-to-mixer snake #13 plugged into mixer input #15). Corrected, re-labeled, confirmed.
- CD playback of known-good CD sounded very 'weird' through system(s), and when solo'd at the mixer. Found incorrect y-adapter at mixer (2 RCA-female connectors to 1 1/4"-TipRingSleeve, a stereo adapter into a balanced input, resulting in the differential input circuit only passing the content that was on both tracks). Replaced w correct adapter (2 RCA-female connectors to one 1/4"-TipSleeve connector from my gig-bag, as there were no correct adapters in cabinet.
- Mic stand was using hardware-store clamp to keep upper portion from 'sinking'. Also, thumb-screw at base sheared off, making it impossible to lower the bottom portion in between 'legs' for storage. Disassembled, sanded friction parts, added one layer of electrical tape to restore 'clutch' function. Replaced thumbscrew from personal metric-hardware collection.
- Mixer Main-mix signals 'Mono' output & 'B' output hooked to snake returns C & D for no good reason discernable. Disconnected both, used 'B' output for ASL headphone amp input.
- Audio power amp and projector on same 15-Amp circuit – projector draws 340-Watts while on, amp draws 650-Watts as configured (4-ohms per side). Calculations: 15Amp circuit x 120Volts = 1800W max on circuit. 340W + 650W = 990W draw on circuit: OK w headroom.

- Sony BC-TRV battery charger, NP-FV70 battery-pack at the mixer (camera battery) - whose? Put in lost and found in the small alcove between the social hall and the classroom/board room.
- Labels on some building circuit-breakers found to be wrong. Mixer etc: breaker 8A; power amp: breaker 3A. Added tape to these breaker's labels w this info; obscured label for breaker previously marked 'sound mixer' w blank tape.
- Speaker cable found at amp rack w removed ¼"-TipSleeve connector – taken home, repaired, returned; installed between 1st monitor to 2nd.
- Mic stand: clutch handle spins uselessly. Taken home, attempted to repair, but stymied by shattered/missing plastic parts. Used gaff tape to semi-permanently set stand height at a usable height. returned.

Questions

Actions, Info

- SCL-SC printer: HP Officejet Pro 8630 behind Tina's desk
- Check request for reimbursement of my gear installed in CSL-SC system: RCAs-1/4"-TS y-adapter 2X: \$2ea , metric screw and thumbscrew-type cap for mic-stand \$0.75; 3-space security cover for EQ \$15