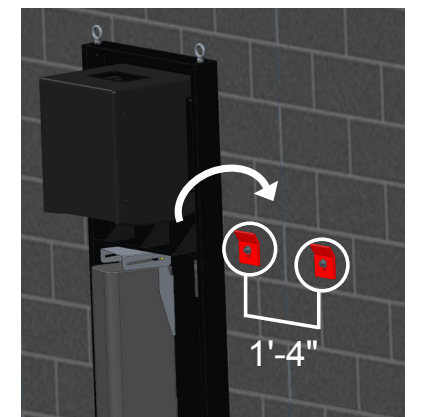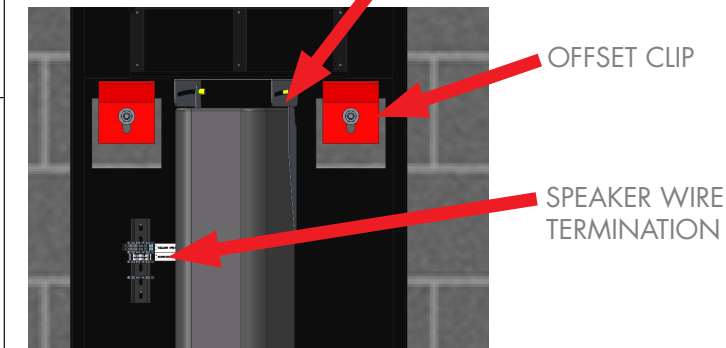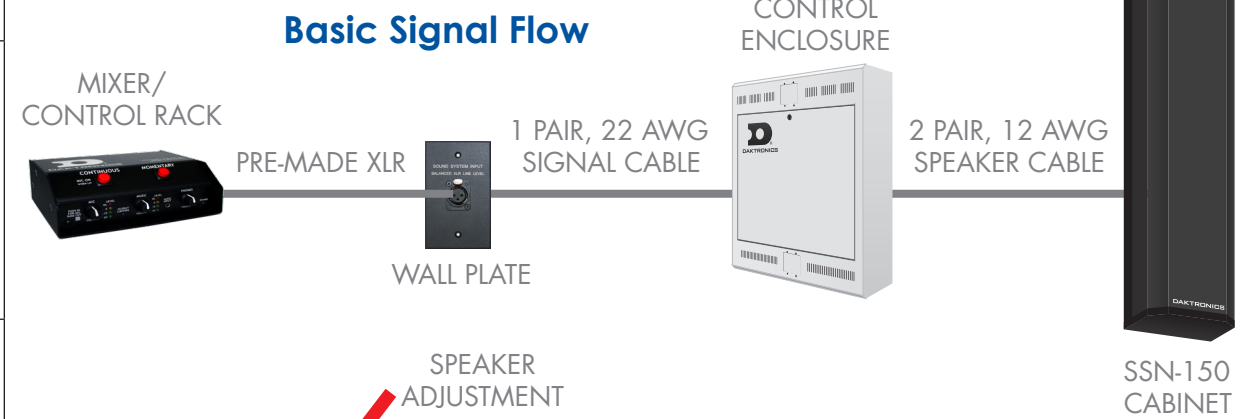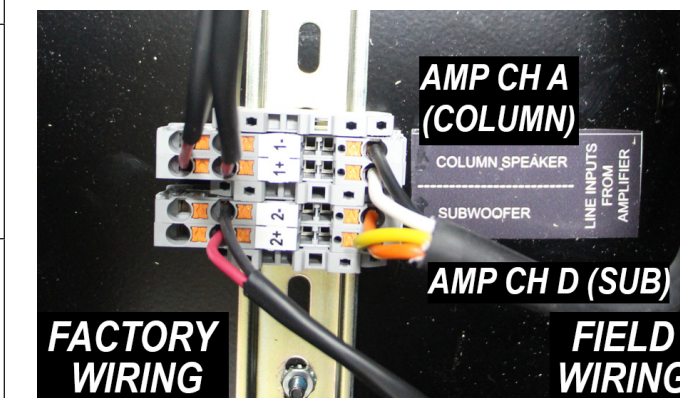**Products Involved:**
0A-1756-0001

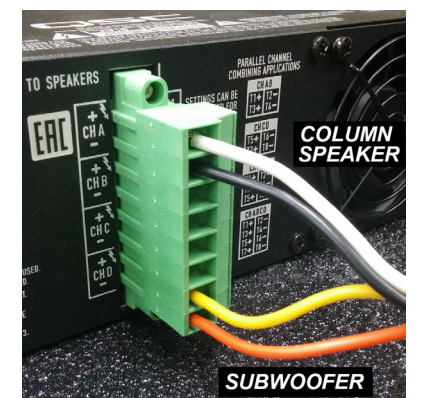| Task (Major Step)	Process / Key Points / Reason Why (if applicable)	Tools Required / Reference Materials
THESE ARE FIELD SERVICE INSTALLATION INSTRUCTIONS. REFER TO SUBCONTRACTOR SCOPE OF WORK FOR THEIR RESPONSIBILITIES.		
1. Receive Equipment ☐ Unload equipment from truck ☐ Store control equipment in secure location	**a.** Equipment for audio system is generally crated together. Items: Speaker Cabinet, Wall Mount Amp Rack, Signal Input Plate, Audio Control System, and Cables. **b.** Store all control equipment in a secure location to prevent damage or theft.	• Video: Sportsound 150 Indoor Sound System Installation • Sportsound Indoor SSN-150 Audio System Installation Manual (DD2686308) [located inside speaker cabinet] **This manual includes all drawings referenced below.**
2. Inspect Finish and Mesh ☐ Inspect sound cabinet for dirt/damage ☐ Inspect mesh for dirt/damage ☐ Clean/repair/report dirt/damage to PM	**a.** Visually inspect the exterior finish of the cabinet for deep scratches, dents, chips, etc. **b.** Visually inspect the mesh for dirt, scratches, or wear. If mesh is dirty, use a mild soap and nonabrasive cloth to clean it. **DO NOT use a pressure washer!** **c.** Contact PM/PC about any damaged goods.	• mild soap • nonabrasive cloth
3. Install Cabinet ☐ Attach mounting clips to wall ☐ Remove speaker grille frame ☐ Attach provided lift eyes to top of cabinet ☐ Hang cabinet on clips and secure	**a.** Attach mounting clips to the wall 16" apart using recommended anchors listed in **Appendix C** of the installation manual. **b.** Remove the grille frame by removing the 4 screws on the top and the bottom of the cabinet. **c.** Attach provided lift eyes into the top-rear of the cabinet to lift it up to the mounting clips. **d.** Hang the cabinet on the mounting clips and secure it in place on the wall with 1/2" hardware through the holes in the bottom of the cabinet.	• **Section 3** of Installation Manual • **DD2670874** (included in **Appendix C** of installation manual) • **DWG-1132106** and/or Site-Specific Drawings • Tools to install anchors/hardware
4. Aim Speakers ☐ Aim speakers to fit venue	Speakers may need to be aimed properly to fit venue. Aim speakers by following aiming procedure on **DWG-1132106**.	• **Section 3** of Installation Manual • **DWG-1132106** • 7/16" socket
5. Mount Control Enclosure (Amp Rack) ☐ Determine location for control enclosure ☐ Mount control enclosure to the wall	**a.** The control enclosure (AKA "amp rack") should be installed in a location near the speaker cabinet easily accessible from the ground. This can be in a closet or on the wall in the same room as the speaker cabinet. If possible, use the knockout on the back of the enclosure to mount it over a power junction box. **b.** Use 1/4" hardware to mount the enclosure on the wall.	• **Section 3** of Installation Manual • **DD2670874** (included in **Appendix C** of installation manual) • **DWG-1152507** • Phillips screwdriver • Tools to install anchors/hardware
6. Terminate Speaker Cable in Cabinet ☐ Route speaker wire from cabinet to amp ☐ Terminate wire to terminals in speaker cabinet ☐ Label all wires	**a.** Route speaker wire from speaker cabinet to amp rack. **b.** Terminate speaker wires to speaker cabinet terminal blocks as shown in image 6. **c.** Label wires to identify sub and column.	• **Section 4** of Installation Manual • **DWG-980598** • wire stripper, cutter • small flat screwdriver
7. Test Resistance and Terminate ☐ Test resistance of speakers ☐ Record resistance values: **Main:_____ Sub:_____** ☐ Terminate speaker wires to amp	**a.** Test resistance of speakers between white/black and between yellow/orange at amp enclosure to ensure wiring is correct. Both the main speaker and subwoofer should have a reading close to 5.5 ohms. **b.** Terminate speaker wires to amplifier connector as shown in image 7.	• **Section 4** of Installation Manual • **DWG-3480030** • multimeter • small flat screwdriver

Basic Signal Flow

MIXER/ CONTROL RACK — PRE-MADE XLR — WALL PLATE — 1 PAIR, 22 AWG SIGNAL CABLE — CONTROL ENCLOSURE — 2 PAIR, 12 AWG SPEAKER CABLE — SSN-150 CABINET

3a. Inside Speaker Cabinet

SPEAKER ADJUSTMENT — OFFSET CLIP — SPEAKER WIRE TERMINATION

3d. Clip & Cabinet Attachment

1'-4"

3b. Grille Frame Removal

Grill Frame Assembly — Lift Eye Location — Sound Cabinet Assembly
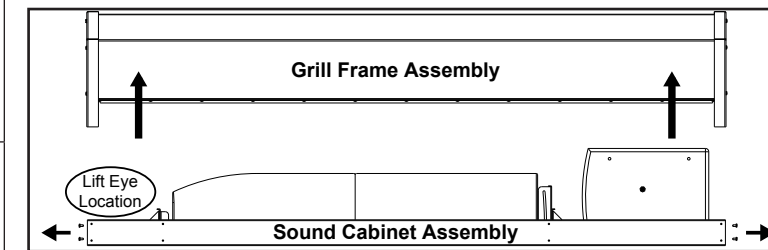
6. Speaker Cabinet Connections

FACTORY WIRING — AMP CH A (COLUMN) — COLUMN SPEAKER — SUBWOOFER — LINE INPUTS FROM AMPLIFIER — AMP CH D (SUB) — FIELD WIRING

7. Amp Connections

TO SPEAKERS — COLUMN SPEAKER — SUBWOOFER

Task (Major Step)	Process / Key Points / **Reason Why (if applicable)**	Tools Required / Reference Materials
8. Re-Install Grille Frame ☐ Re-install grille frame on cabinet ☐ Remove lift eyes	**a.** Re-install speaker grille frame on the speaker cabinet with supplied hardware. Ensure all hardware is used. **b.** Remove and dispose of lift eyes.	• **Section 3** of Installation Manual • **DWG-1132106** • Phillips screwdriver
9. Terminate Input Signal Cable ☐ Terminate signal cable to terminal block in amp enclosure ☐ Terminate signal cable to input plate	**a.** Terminate signal cable to terminal block inside amp enclosure as shown in image 9a. **b.** Terminate signal cable to terminals on input plate at audio control location as shown in image 9b.	• **Section 4** of Installation Manual • **DWG-1144831, DWG-3480030** • wire stripper, cutter • small flat screwdriver
10. Ensure Proper Program Loaded in Amp ☐ Ensure proper program is loaded in amp ☐ Record preset used: **Preset:_____**	Turn the amplifier on and ensure the program on the display indicates the correct system: **SSN-150**. If not, refer to manual to configure. **SSN-150** is the default preset. If the customer prefers less bass, **SSN-150 Low Sub** or **SSN-150 Lowest Sub** may be used instead. Record the chosen preset if different from default. If these are not available options, contact the Help Desk.	• **Section 4** of Installation Manual
11. Connect Audio Control System ☐ Connect audio control system	Connect the audio control system to the input plate. Refer to the respective manual and support documents and videos for a guide on proper setup and operation of supplied audio control system.	• SSR-100 Support Site • SSR-200 Support Site
12. Play Test Tones ☐ Play test tones and record if heard or not **100 Hz:_____ 1 kHz:_____ 4 kHz:_____**	Play various test tones – downloadable on the FTP site – to ensure you hear Lows (100Hz), Mids (1 kHz), and Highs (4 kHz). Use the supplied LTIBLOX device and smartphone/laptop. Ensure your device is turned up to full output.	• Test tone files • LTIBLOX (A-2755) • laptop
13. Play Music Tracks ☐ Play music tracks to system and record levels and measurement system used: Avg SPL reading through venue: _____ Measurement Device: _____ Measurement App: _____	**a.** Play various music tracks on a smartphone/laptop with use of the supplied LTIBLOX device. Ensure levels throughout venue are consistent. Should be capable of achieving at least 85dB throughout seats. Measure by downloading an SPL App on your smartphone device. **b.** Ensure the amplifier is not clipping.	• LTIBLOX (A-2755) • laptop • SPL meter or smartphone with SPL Meter App (SPL accuracy may vary depending on app or phone type)
14. Before Leaving Site Train Customers On: ☐ Proper Startup and Shutdown Procedures ☐ Control system operation ☐ Turn off power to amp rack and unplug source equipment when not in use ☐ Hand customer manuals, quick start guides, and Daktronics contact information	**a.** Train customer on proper startup and shutdown procedures. **b.** Train customer on control system operation and best practices. **c.** Train customer to turn off power to amp rack and unplug source equipment when not in use **to protect equipment from power surges and lightning**. **d.** Hand customer cabinet and source equipment manuals and quick start guides. Verify they know how to contact Daktronics if a problem should arise.	all printed documentation shipped with the audio system
SO/Contract #:	**Technician Name:**	**Date:**

9a. Amp Signal Termination
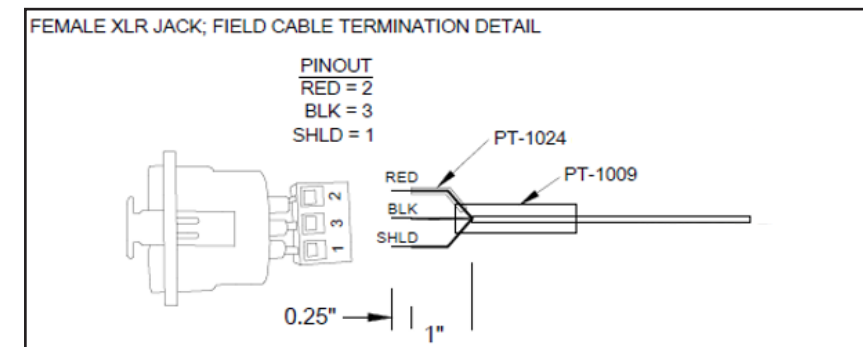
9b. Input Plate Signal Termination

13b. Amp Indicators - stay below CLIP/LIM

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201 Daktronics Drive
Brookings, SD 57006-5128
www.daktronics.com/support
800.325.8766