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AA Console Ground Kit Manual

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Overview

This kit is for the installation of a grounding network for the Audio Authority, (AA), audio system. This network is to minimize electronic noise, and poor behavior of the audio system caused by inadequate or unequal earth grounding of the buildings' electrical circuits.

Grounding the Window Consoles

1. Use the #4-40x1/8" screws provided to connect one end of the 15 foot, Green/Yellow wires provided to the bottom of each console at the window area.
2. Secure the other end of the 15 foot wires under the ground screw on the AA Hub.

Grounding the Remote Pharmacist Console

(**Note:** If the Pharmacist console is close enough to use the third 15 foot Green/Yellow cable, use it, otherwise perform the following.)

1. Use the original Cat5 cable to pull the new 100 foot Shielded Cat5 cable from the AA Hub to the Pharmacist console. (If this cable needs to be shortened, or is damaged during installation, see **"Re-terminating the Shielded Cat5 Cable"**.)
2. Install a RJ45 Jack Assembly on each end of the Shielded Cat5 Cable. (See the **"Installation of RJ45 Jack Assembly"** instructions that follow.)
3. Use the #4-40x1/8" screw provided to connect the Green/Yellow wire to the bottom of the remote console.
4. Use one of the 12" patch cables provided to connect from the RJ45 Jack to the console.
5. Connect the Green/Yellow wire at the other end under the ground screw on the AA Hub.
6. Use the other 12" patch cable to connect from the RJ45 Jack to the AA Hub.

Installation of RJ45 Jack Assembly

1. Remove the cover from the RJ45 Jack assembly. (See Fig. 1)
2. With the end of the outer jacket nearly even with the end of the terminal blocks, place each wire in the appropriate slot of the terminal blocks for a 568B connection. (See Fig. 2)
3. With the tool provided, press each wire to the bottom of the slot. (See Fig. 3)
4. Trim off the end of each wire even with the edge of the green circuit board, or so that the end of the wire is between the terminal block and the edge of the board.
5. Test the cable and connections, (if equipment is available).
6. Mount or secure the RJ45 Jack assembly, if so desired.
7. Re-install the assembly's cover.

Re-terminating the Shielded Cat5 Cable

1. At the end that needs to be re-terminated strip off 2" of the outer jack, foil wrap, plastic wrap and string.
2. Cut the shield wire to 1" long. (SEE **"Re-terminating Cat5 Cable Illustration"**)
3. Cut the solder connection off of the Green/Yellow wire and strip off 3/16" of the insulation.
4. Crimp on the red in-line splice provided to the Green/Yellow wire.
5. Crimp the other end of the red in-line splice onto the shield wire of the Cat5 cable.
6. Fold the shield wire back over the outer jacket of the Cat5 cable.
7. Using electrical tape, and starting just past the end of the outer jacket, tape the shield wire, red in-line and Green/Yellow wire to the Cat5 cable. (Note: It is best to go one wrap past the red in-line connector onto the Green/Yellow wire.)

Fig. 1 – Remove Cover

PRESS HERE AND PULL,
TO REMOVE COVER

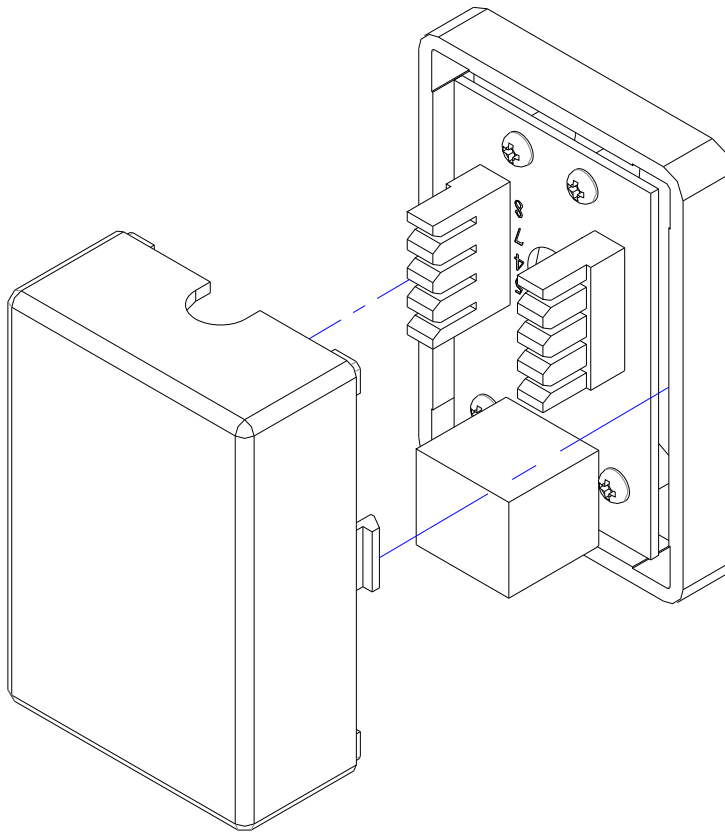
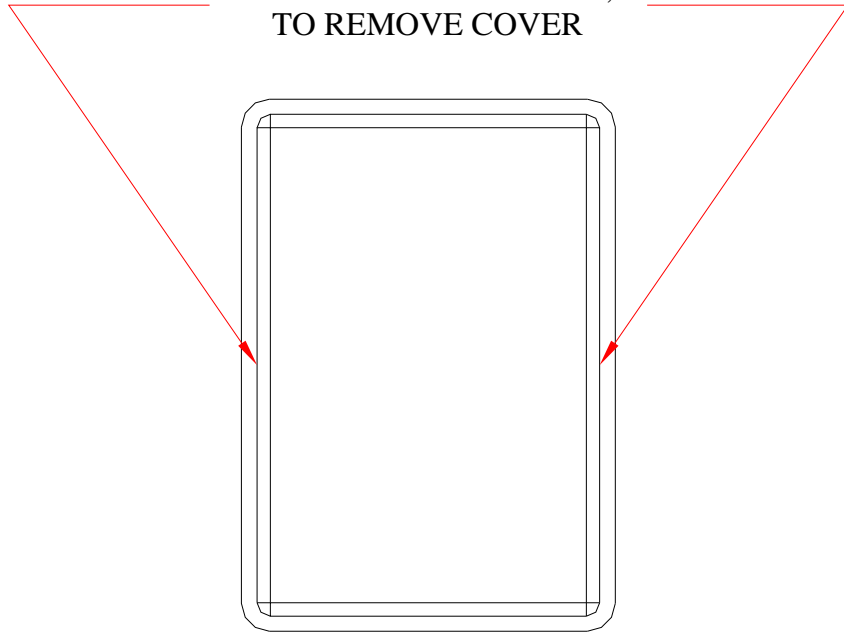


Fig. 2 – Wire Diagram

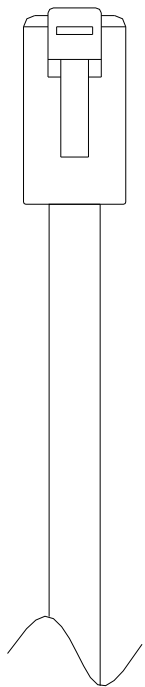
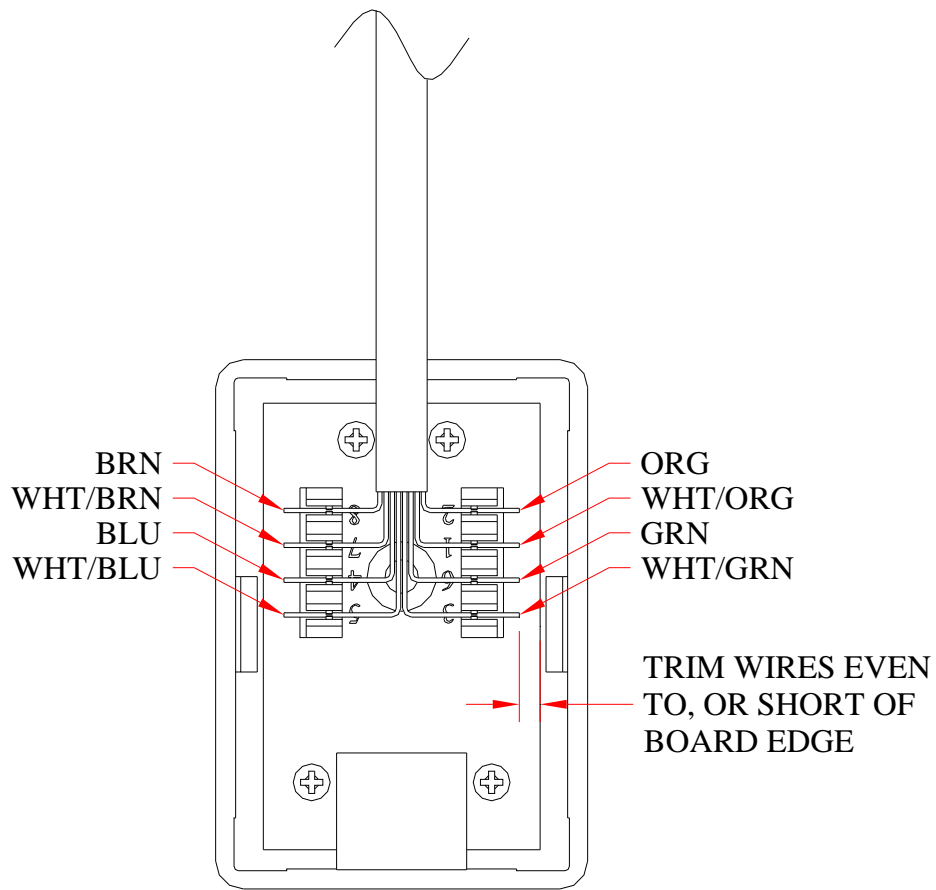
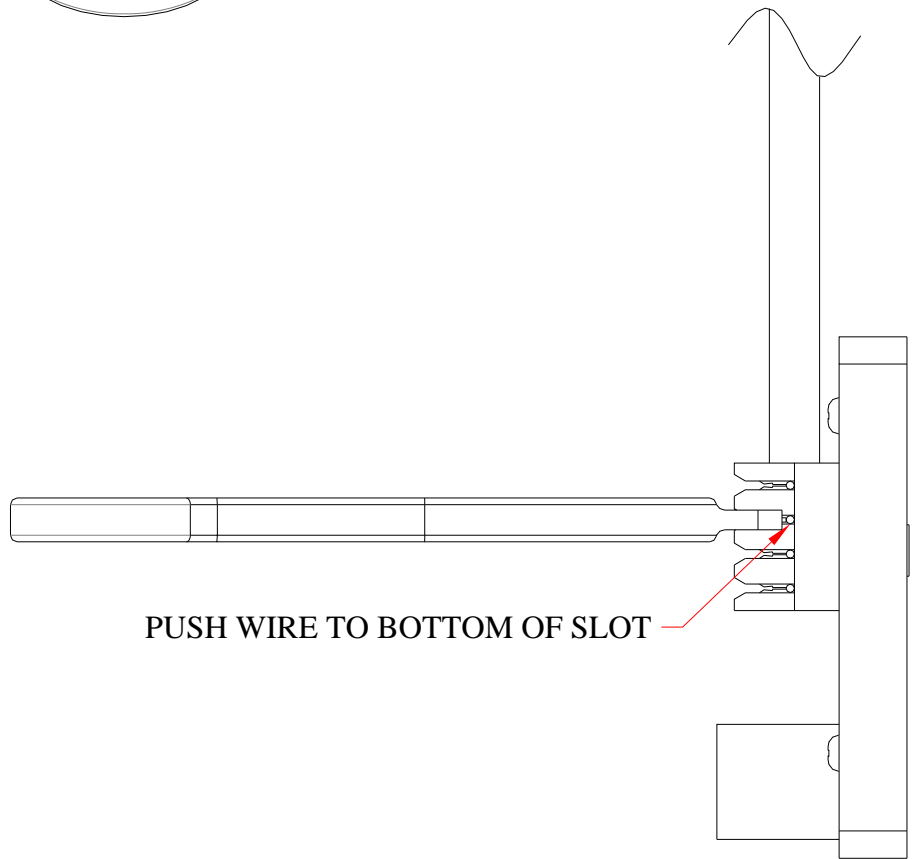
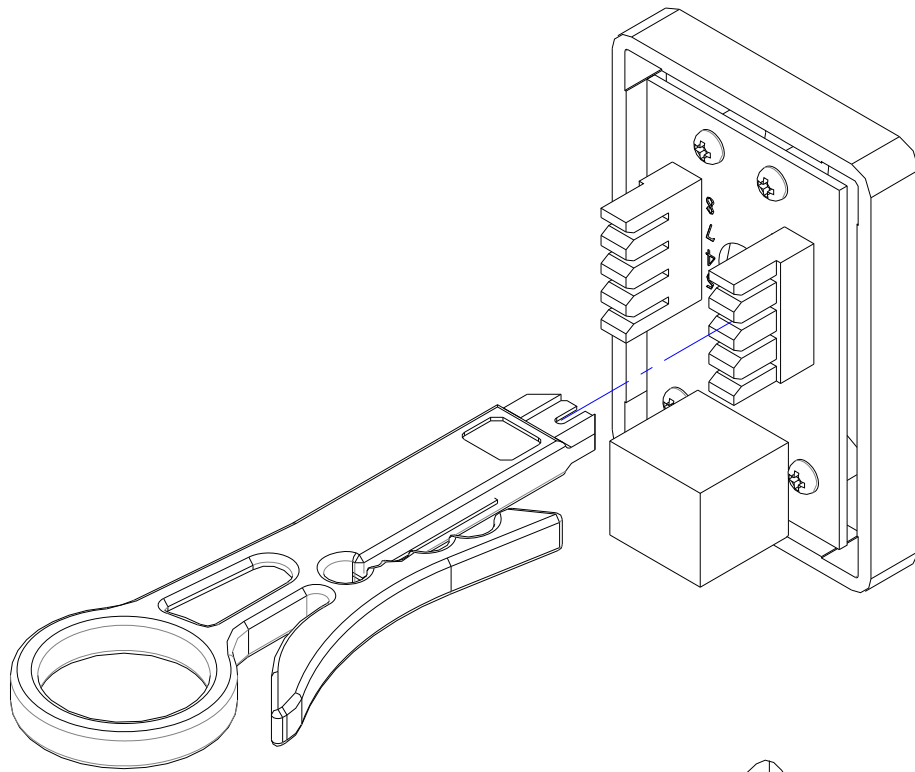


Fig. 3 – Insertion Tool



Re-terminating Cat5 Cable Illustration

