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TEKVOX CB1-A Ceiling Box

TEKVOX CB1-A Ceiling Box Installation Guide

Contents

TEKVOX
Drop-in AV®

TEKVOX CB1-A Ceiling Box

Specifications

- Product Name: CB1-A Ceiling Box
- Model Number: 78038
- Main Power: 120 volts at 60 Hz, 15 amp
- Wire Gauge: 14 gauge stranded

Product Usage Instructions

Step 1: Remove Lid

Before installation, remove the lid of the CB1-A Ceiling Box.

Step 2: Select Appropriate Installation Location

Choose a location that allows the 4′ cables to reach the projector but still enables full opening of the ceiling box lid. Open the area above the ceiling box by removing the ceiling tile and placing it safely aside.

Step 3: Cable Support Installation Options

Ceiling Truss: Loop the braided cable around the truss and pull it tight through the eye of the cable. Repeat for all cables.

Wood Studded Ceiling: Use four 1/4 x 3 eye lag screws. Drill into the stud, secure the screw, and loop the cable through the eye of the lag. Repeat for all cables.

Concrete Ceiling: Use four M6 Eye bolts. Drill into the concrete, secure the screw, and loop the cable through the eye of the lag. Repeat for all cables.

Step 4: Installing A Kwik-Loc Cable Joiner

- Pass the wire rope around the anchor point.
- Pass the wire rope through the cable loop and pull it tight around the anchor point.
- Pass the wire rope through the Kwik-Loc cable input opening.
- Place the ceiling box into the ceiling grid frame ensuring correct direction.
- Pull the wire rope through the mounting hole on the ceiling box and loop it back through the Kwik-Loc cable outlet. Adjust tightness and cut off excess cable.

Step 5: Electrical

Connect to main power (120 volts at 60 Hz, 15 amp) using the junction box on the ceiling box. Follow wire color guide for proper connections.

FAQ

- **Q: Can I install the CB1-A Ceiling Box without proper cable support?**
    - A: No, installing without proper cable support is dangerous and can cause harm. If unsure, seek professional installation.
- **Q: What type of screws/bolts are needed for different ceiling types?**
    - A: For wood studded ceilings, use four 1/4 x 3 eye lag screws. For concrete ceilings, use four M6 Eye bolts.
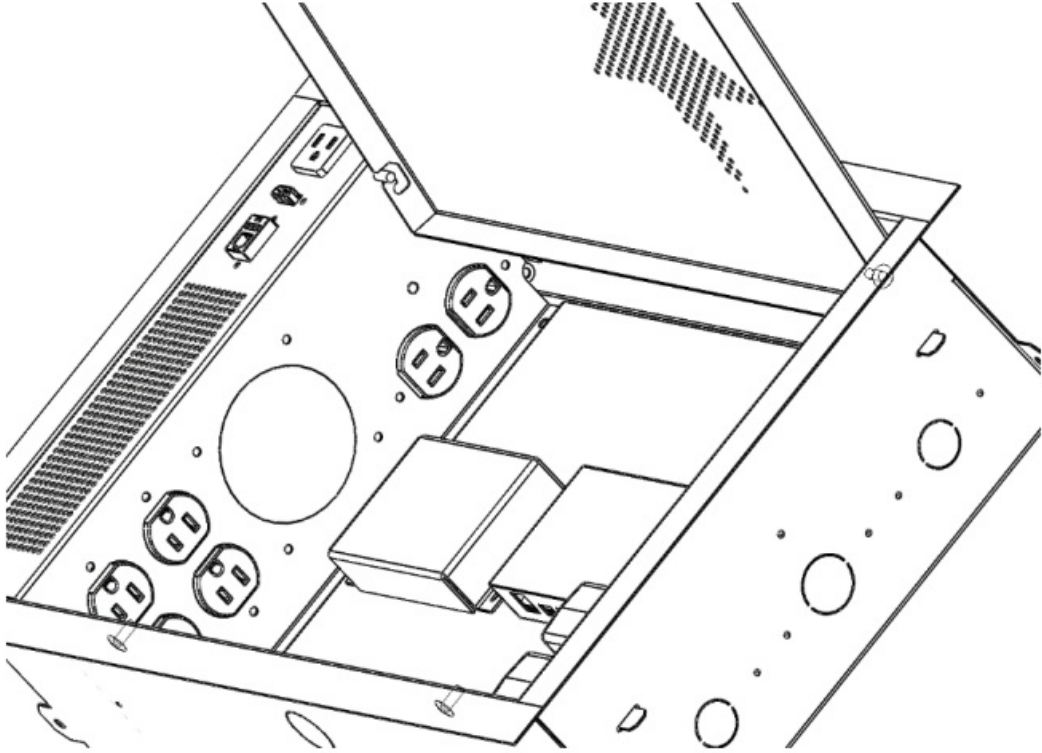
Included in this Product Package

CB1-A Ceiling Box

Suspension Cable Set (2)

Installation Instruction

Step 1: Remove Lid

- Unlatch and swing the lid up. You may need a wire hook to pull the lid up, or just tilt the box.
- Push the lid in towards the bottom and away from the metal hinges.
- Angle the lid so that you can pull it away from the metal hinge.
- Carefully remove the lid out from the ceiling box.

- **Step 2: Select Appropriate Installation Location**

  It is important to mount the TEK CB1-A close enough to the projector for the 4' cables to reach, but not so close that you cannot fully open the ceiling box lid. The area above the ceiling box will need to be opened in order to install the supporting cables. Remove the ceiling tile and place it in a safe area.

- **Step 3: Cable Support Installation Options**

  Installing ceiling boxes without proper cable support is dangerous and can harm or kill someone. If you don't feel comfortable installing these cables, we suggest that you contact a professional who can do it for you.

  Ceiling Truss

  Most installations will use a ceiling truss and requires little effort. Simply loop the end of the braided cable around the truss and pull it tight through the eye of the cable. Do the same for the other 3 cables.

  Wood Studded Ceiling

  When installing with a wood studded ceiling, use four 1/4" x 3" eye lag screws. (Note: These are not supplied with the ceiling box). Drill a 1/8" hole into the stud and secure the screw into the wood. Place the end of the braided cable through the eye of the lag and pull it tight through the eye of the cable. Do the same for the other 3 cables.
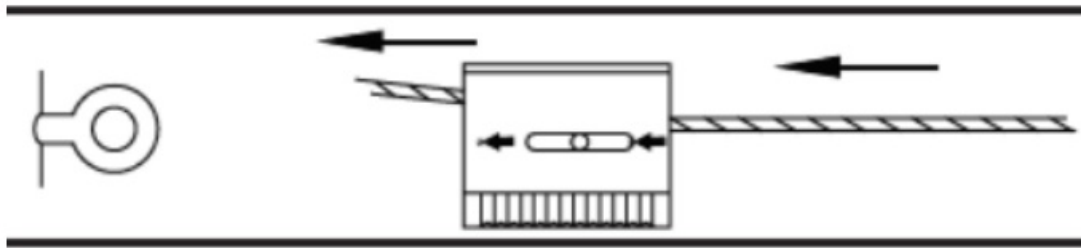
  Concrete Ceiling

  For concrete ceiling installations, use four M6 Eye bolts. (Note: These are not supplied with the ceiling box). Using a 1/8" masonry drill bit, drill a hole into the concrete and secure the screw into the concrete by tapping it into place and tighten it down. Place the end of the braided cable through the eye of the lag and pull it tight through the eye of the cable. Do the same for the other three cables.
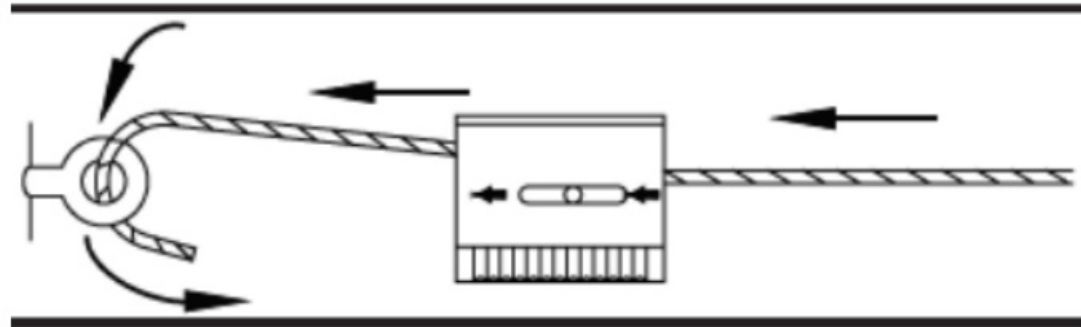
- **Step 4: Installing A Kwik-Loc Cable Joiner**

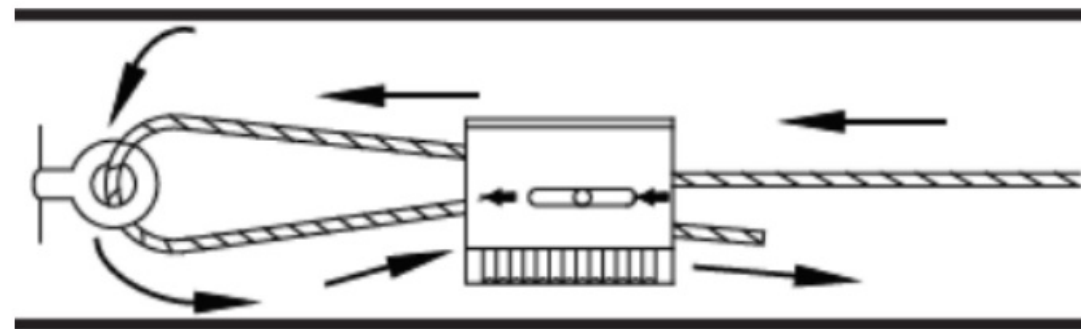 Kwik-Loc Cable Joiners are used to mount the CB1-A into the ceiling.

First pass the end of the wire rope around the anchor point. This could be any of the above mentioned ceiling supports.
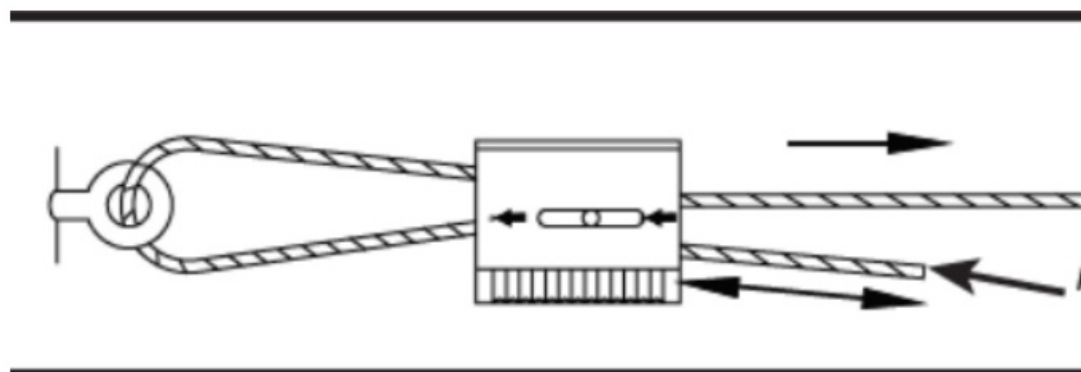
Pass the end of the wire rope through the cable loop and pull the end tight around the anchor point.
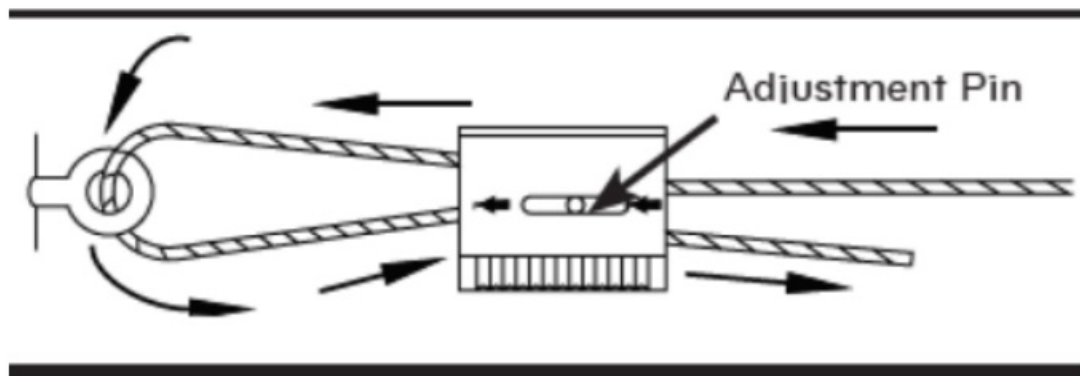
Pull the adjustment pin back on the Kwik-Loc and pass the end of the wire rope through the cable input opening.

Place the ceiling box into the into the ceiling grid frame. Make certain that the direction of the ceiling box is correct before continuing.

Pull the end of the wire rope through the mounting hole on the ceiling box and loop it back through the Kwik-Loc cable outlet. Adjust the tightness of the cable so that it is not pulling the box up from the ceiling. Once completed, cut off the excess cable
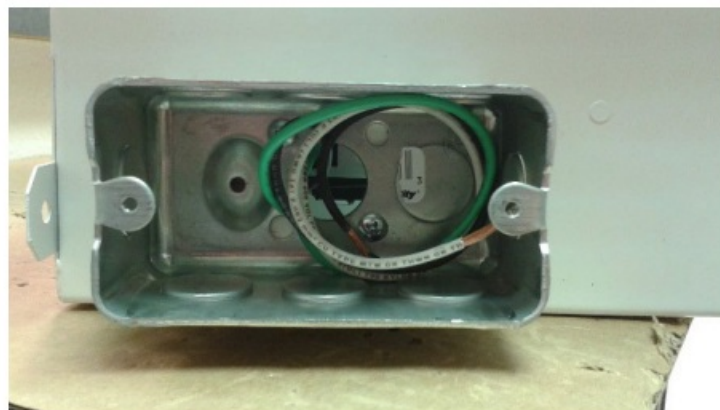
Adjustment Pin

Step 5: Electrical

On the main electrical side of the ceiling box is a junction box which contains the main power leads for the ceiling box. This junction box makes it easy to supply main power (120 volts at 60 Hz 15 amp only) to the ceiling box. The wires are 14 gauge stranded.

Wire color guide:

- Black (Line Hot)
- White (Neutral)
- Green (Building Ground)

Step 6: Equipment Tray Installation

For ease of installation of equipment, a removable equipment tray comes attached to the inside base of the ceiling case. The equipment tray can be easily removed by loosening the four screws at the corners of tray and sliding the try. Additional mounting screws are packaged separately within the ceiling cases. Installers may pre-wire the equipment tray prior to the CB1-A ceiling box installation.
The current equipment mounting holes allow for placement of TEKVOX equipment. Other equipment can easily be installed by drilling a 1/8" hole and using the supplied mounting screws. Thread-Forming Screws, Pan Head Phillips, 8-18 Threaded, 1/4" Length. Do not over tighten the mounting screws

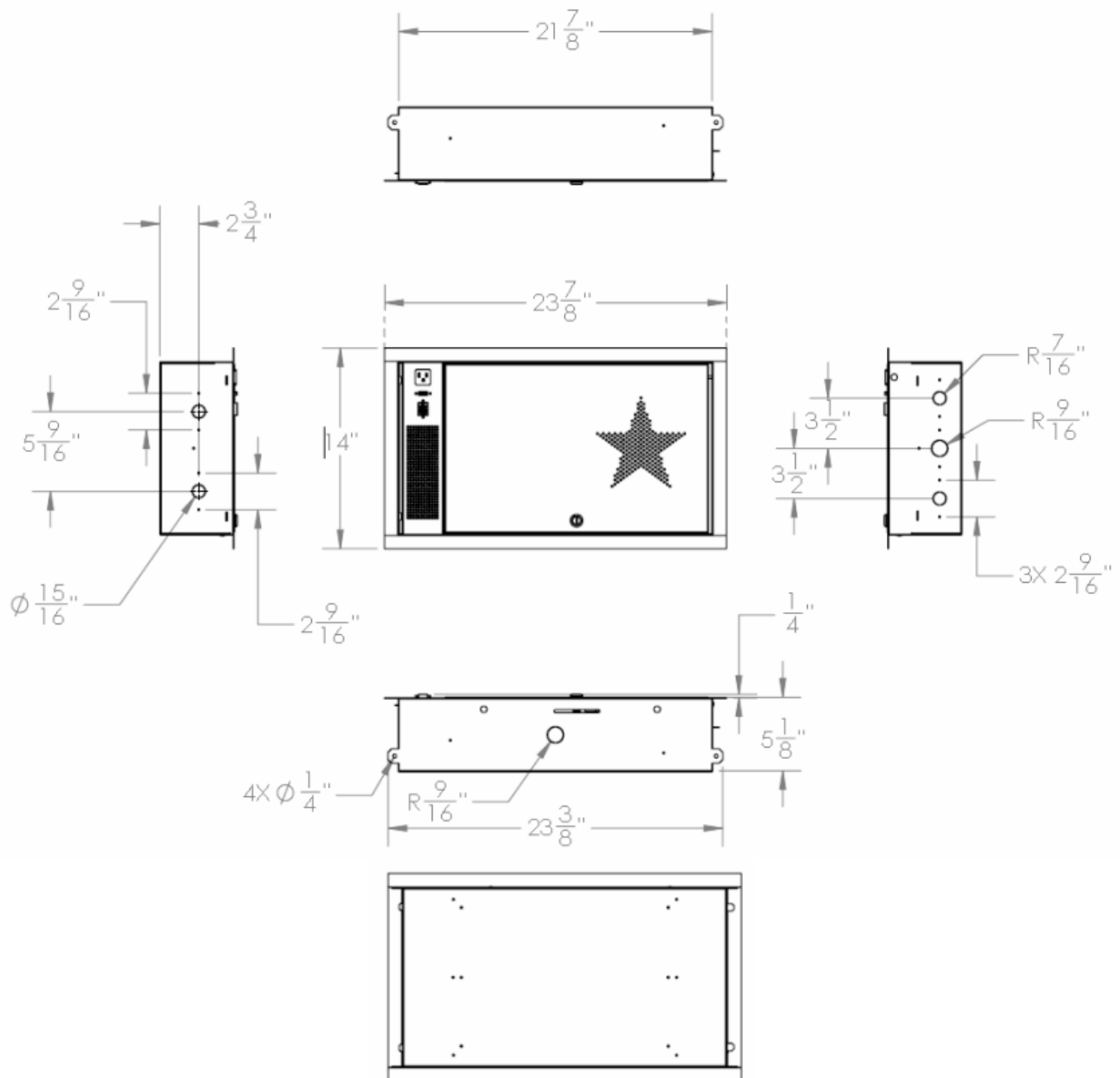## Technical Specifications

AGENCY APPROVALS 4008930

PLENUM RATED:

Conforms to UL 2043: UL Standard for Safety Fire Test for Heat and Visible Smoke Release for Discrete Products and Accessories Installed in Air-Handling Spaces SAFETY RATED: Conforms to UL 60950-1: Information Technology Equipment – Safety and certified to CSA 22.2 60950-1: Safety of Information Technology Equipment

- Model Number 78038
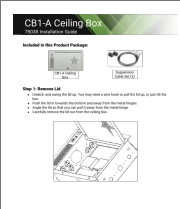- Size 23.75" x 14" x 5"
- Weight 13 lbs
- Gross Weight 50 lbs
- Shipping Weight 17 lbs

Main Line Power 120V 60 Hz maximum 15 AmpsDrawings

Diagram

- **www.tekvox.com**

Documents / Resources

[TEKVOX CB1-A Ceiling Box](#) [pdf] Installation Guide
CB1-A, CB1-A Ceiling Box, Ceiling Box, Box

References

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