

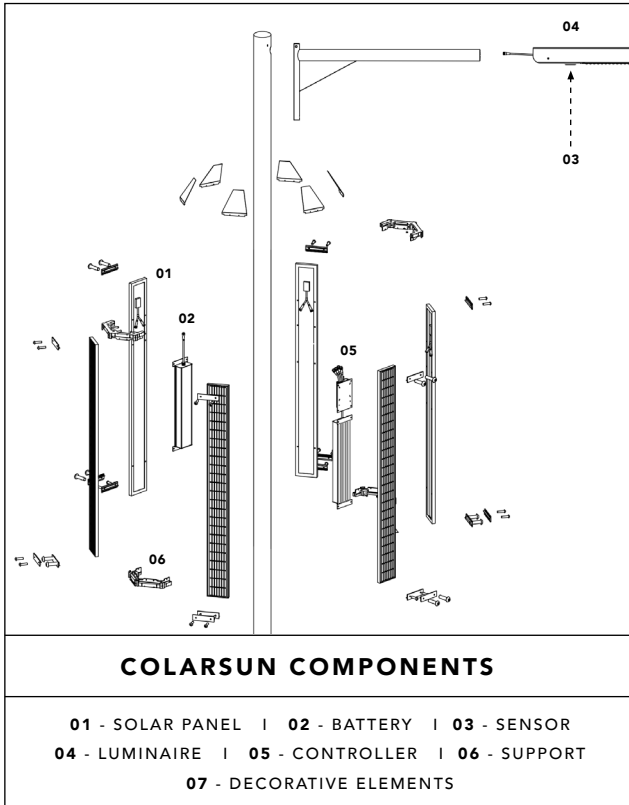
**BULLARD
SOLAR**
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**COLARSUN
RANGE**

GUIDE 2024

ASSEMBLY GUIDE

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1 | CAUTIONS

To ensure the longevity and optimal performance of your COLARSUN solar light, please adhere to the following guidelines:

Handling: Handle with care. Avoid dropping the product or placing heavy items on it.

Exposure: Keep the product away from direct immersion in water. Ensure the solar panel is positioned to minimize shading from trees, buildings, etc., to maximize its efficiency.

Cleaning: Avoid using cleaners that contain ammonia, benzene, or abrasive materials, as they can damage the product's surface.

Battery Maintenance: For prolonged storage periods, recharge the batteries every 6 months to maintain their lifespan.

Parts Replacement: Use only Bullard Solar replacement parts. Do not substitute with parts from other suppliers, as this could compromise the system's integrity and damage other components.

2 | OPERATING AND STORAGE TEMPERATURE

Discharge Temperature: The product is designed to discharge efficiently within a temperature range of -20°C to 75°C.

Recharge Temperature: Ensure that charging occurs within a temperature range of -20°C to 75°C.

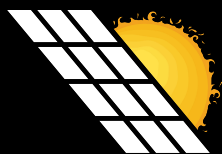
Safety Protocols: The integrated controller includes a protection mechanism. If the temperature falls below -10°C or exceeds 75°C, it will automatically stop charging to protect the battery.

To ensure the longevity and performance of your COLARSUN, avoid installing the unit in areas where extreme temperature conditions exceed these limits.

Welcome to Bullard Solar,

Introducing your COLARSUN Solar Street Lighting System. As a pioneering force in renewable energy solutions, Bullard Solar is delighted to showcase one of our premier products, engineered to illuminate your surroundings with unmatched efficiency. The COLARSUN, featuring vertically mounted solar panels, not only reaffirms our dedication to environmental sustainability but also boasts a sleek, contemporary design. Our objective is to make the installation of this advanced lighting system as smooth and intuitive as the technology itself. This manual has been carefully developed to walk you through each step of the setup process. With clear, detailed illustrations and straightforward instructions, we are confident you will find the installation effortless and straightforward. We encourage you to read the entire manual before beginning the installation to ensure familiarity with the components and procedures. Your safety and the durability of the COLARSUN are of paramount importance to us, so adhering to these guidelines is essential.

Thank you for choosing Bullard Solar.



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3 | INSTALLATION LOCATION

Ensuring the correct location for your COLARSUN solar light fixture is crucial for its optimal operation. Adhering to the following guidelines will not only enhance its efficiency but also extend its lifespan:

Sunlight Dependency: The COLARSUN system relies on sunlight to function. Make sure to choose a location that corresponds to the radiance or peak sunlight hours of your installation site. In regions where sunlight is limited or after several consecutive days of rain, the COLARSUN might operate for shorter durations or may not activate at all.

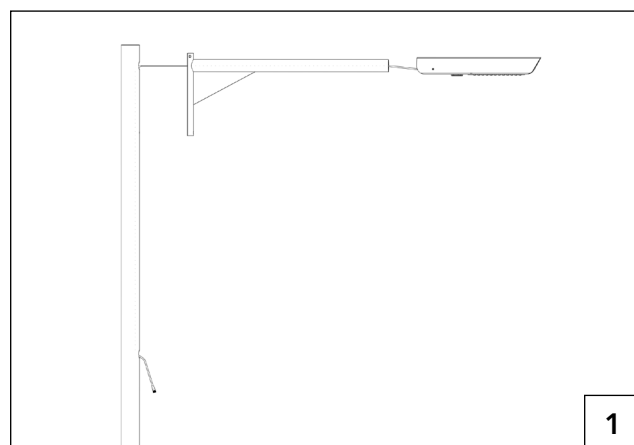
Solar Panel Orientation: Although the solar panels on the COLARSUN are vertically mounted to capture sunlight from

various angles, ensure they receive minimal shading to maximize solar energy utilization. Avoid potential obstructions that can cast shadows on the panels.

NOTE: The internal components of the COLARSUN are certified IP65, ensuring they are waterproof and ready to withstand challenging conditions. The designed holes and slots on the unit serve dual purposes – facilitating heat dissipation and allowing for drainage. Moreover, its metal parts are made from anodized, rust-proof aluminum, capable of enduring both high temperatures and humid conditions with ease.

STEP 1 | INSTALLATION OF THE LED FIXTURE

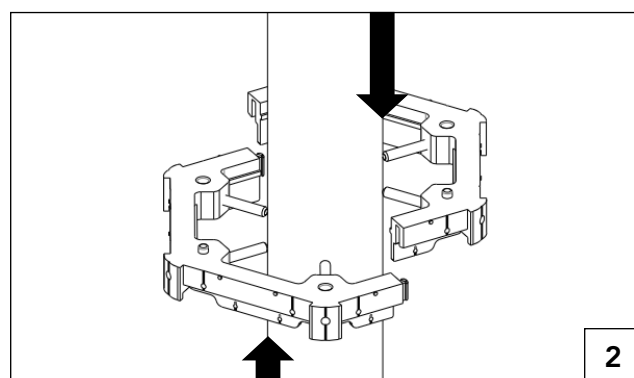
Before assembling the COLARSUN, start by installing the LED fixture onto the support arm. **Run the LED cable inside the arm and through the pole, ensuring it extends out to where the COLARSUN will be mounted, and exits at that point.** This setup prepares the lighting system for connection and ensures that all components are aligned for optimal functionality.



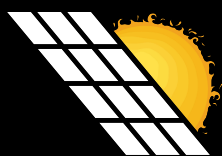
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STEP 2 | ASSEMBLE THE INSTALLATION SUPPORT

Locate the installation support parts provided in your kit. These parts are designed with male and female connections for easy assembly. **Position the two sections around the pole at the desired height and align them so that the male part securely snaps into the female part.**



2



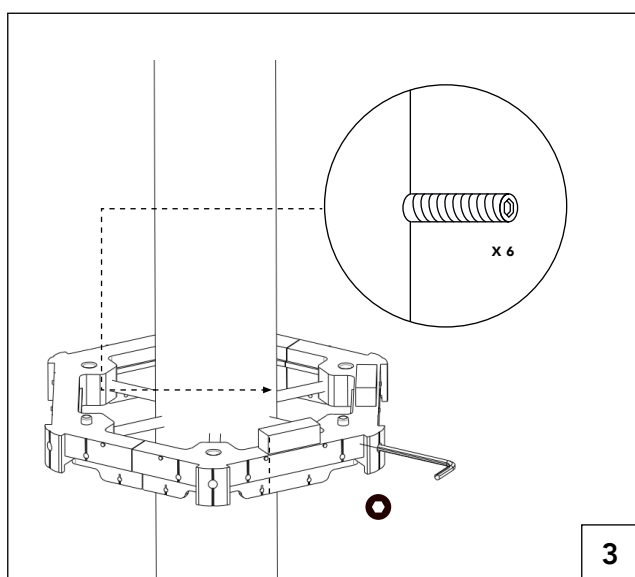
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STEP 3 | SECURE THE SUPPORT TO THE POLE

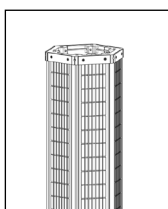


Ensure that each of the six screws is tightly and evenly fastened against the pole, **applying consistent pressure to maintain stability and prevent any movement** of the support.

STEP 5 | ENSURE LEVEL ALIGNMENT

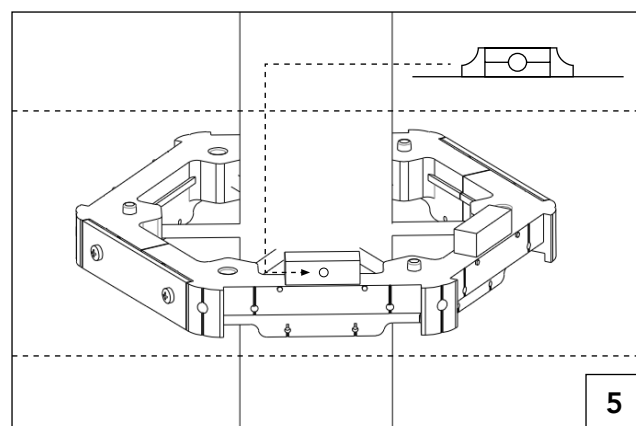
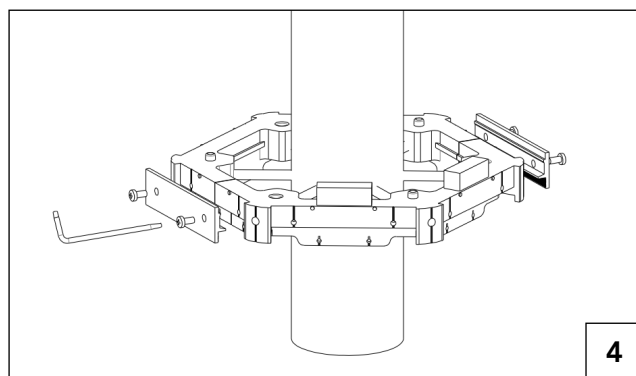
To confirm that the installation support is perfectly horizontal, **use the two provided levels. Place the levels at different locations on the piece simultaneously.** If the levels indicate that the support is not flat, adjust it by fine-tuning the hex screws (from Step 2) until both levels show that the support is properly aligned and flat.

STEP 6 | PREPARE THE COLARSUN FOR INSTALLATION



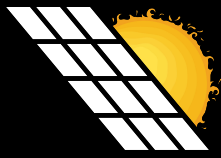
STEP 4 | ATTACH THE ALUMINUM SUPPORT BARS

For increased stability, attach the two aluminum support bars to the installation bracket. Start by aligning each bar flat against the structure, then secure them by screwing the screws into one side of each bar. Ensure that the support section is perfectly flat and aligned to provide optimal support and stability for your COLARSUN solar street light.



Remove the COLARSUN from its packaging and **identify the two solar panels marked with a red dot at the top.**

This marking is designed to help you quickly locate the correct components for the next step of assembly.

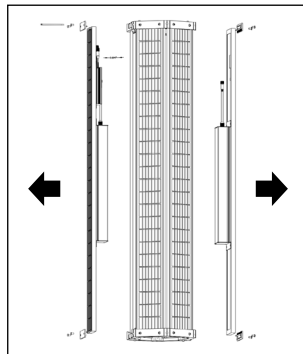


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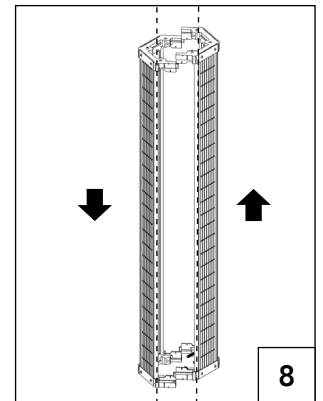
STEP 7 | REMOVE THE MARKED SOLAR PANELS

Carefully loosen the four screws holding each of the marked solar panels in place—two screws located at the top and two at the bottom of each panel. After removing the screws, gently set the panels aside for later installation.



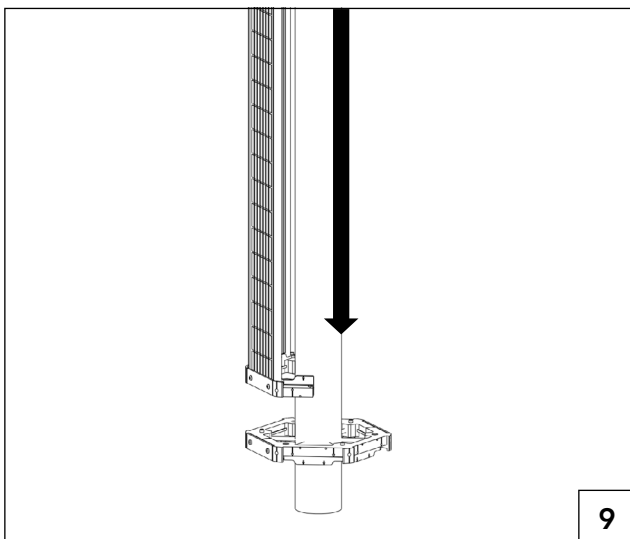
STEP 8 | SEPARATE THE COLARSUN INTO TWO PARTS

The COLARSUN features a hexagonal configuration with six solar panels. To proceed, gently unclick or separate the COLARSUN at the designated joints. This will divide the structure into two parts. Handle each section carefully to avoid any damage to the connections or panels.



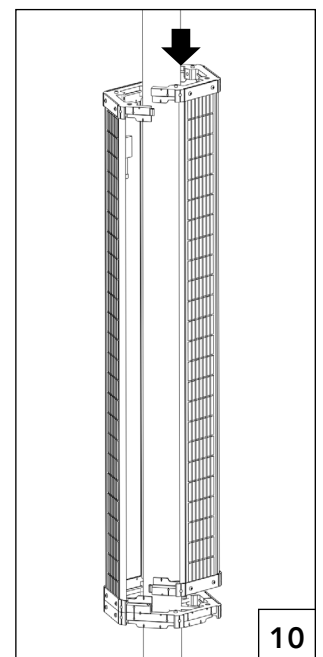
STEP 9 | INSTALL ONE HALF OF THE COLARSUN ON THE SUPPORT

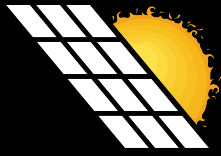
Take one half of the COLARSUN and carefully position it on the previously assembled installation support. **Align the bottom part of the COLARSUN section with the support;** it is designed to fit perfectly into place.



STEP 10 | INSTALL THE SECOND HALF OF THE COLARSUN

Take the second half of the COLARSUN and place it on the opposite side of the support to match the first half. **Align the male and female connectors at the ends of each half. Carefully snap them together to ensure a secure and stable connection.** Verify that the two halves are firmly joined and correctly aligned on the support.





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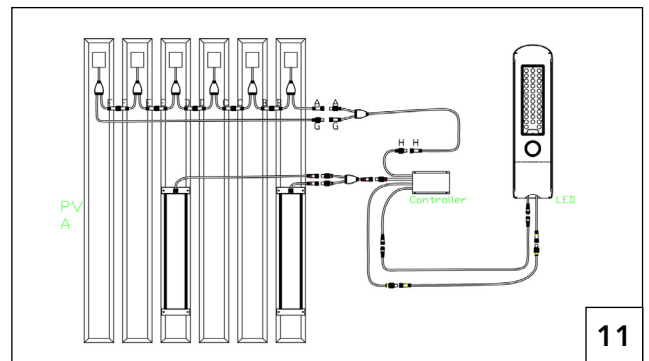
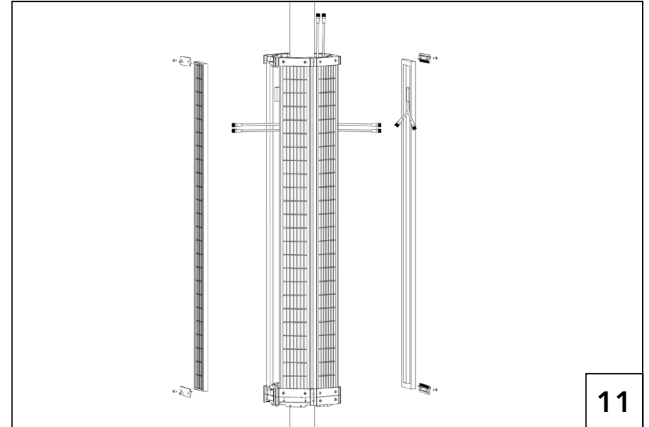
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STEP 11 | APPROACH AND CONNECT THE SOLAR PANELS

Retrieve the two solar panels you set aside in Step 5. Begin by aligning each panel with its corresponding position on the now-assembled COLARSUN structure.

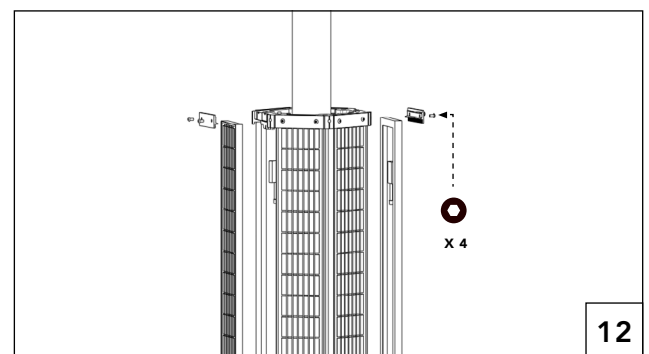
Connect the solar panel cables, making sure to match the labels correctly: connect A to A, B to B, C to C, D to D, E to E, F to F, and G to G. This ensures that each panel is properly connected for optimal performance.

Additionally, connect the cable marked LED from the solar panels to the controller cable also marked LED. Ensure that the cables marked in RED, which are for the batteries, are connected to the corresponding controller ports also marked in red. Confirm that all connections are secure and that the panels are properly mounted.



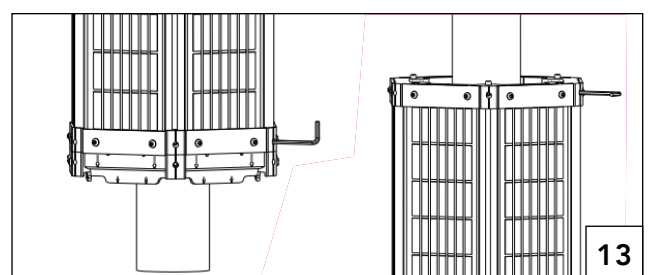
STEP 12 | REATTACH THE SOLAR PANELS

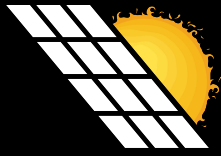
Now reverse the procedure you followed in Step 5 to reattach the solar panels to the COLARSUN structure. **Secure each panel with the four screws (two at the top and two at the bottom) that you previously removed.** Ensure that each panel is firmly mounted and correctly aligned as it was before.



STEP 13 | TIGHTEN THE HEX SCREWS

Begin by tightening the six hex screws located on the top and bottom parts of the installation support. **Use even pressure to ensure that each screw is securely fastened,** providing a stable base for the COLARSUN.

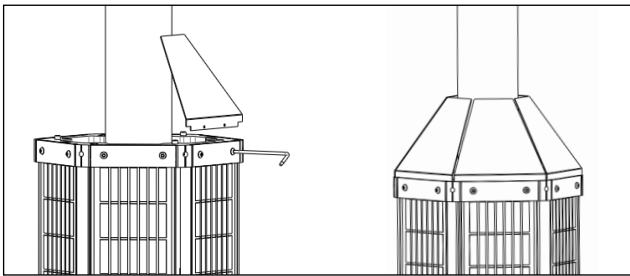




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STEP 14 | ADD DECORATIVE ELEMENTS



Place the decorative part on top of the COLARSUN, securing it with screws in the designated holes. Make sure each screw is tightly fastened to ensure that the decoration is securely attached and completes the aesthetic of your installation.

YOUR INSTALLATION IS COMPLETE!

Your COLARSUN system is now installed and operational. It is designed to function automatically, turning on at night and off at dawn. If the installation has been successful, you will notice a diode either slowly blinking or remaining steady on the motion sensor.

If you have any further questions or need assistance, please do not hesitate to contact your reseller or **Bullard Solar** directly. We are here to help!

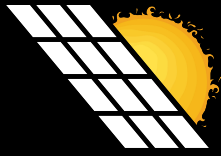
If you have chosen a solution that involves stacking two COLARSUN units, please refer to the next page.



IMPORTANT CONSIDERATIONS:

Unit Identification: Ensure that you carefully select the correct COLARSUN units for each position. The units are specifically marked as "TOP" and "BOTTOM." The "TOP" unit contains the controller, while the "BOTTOM" unit does not. This distinction is crucial for the correct assembly and functionality of the stacked system.

Assembly: Carefully align the "TOP" unit over the "BOTTOM" unit. Ensure that all connectors and fixtures align correctly and securely without forcing any components. The design is intended to fit seamlessly, but attention to detail will ensure a stable and functional stack.

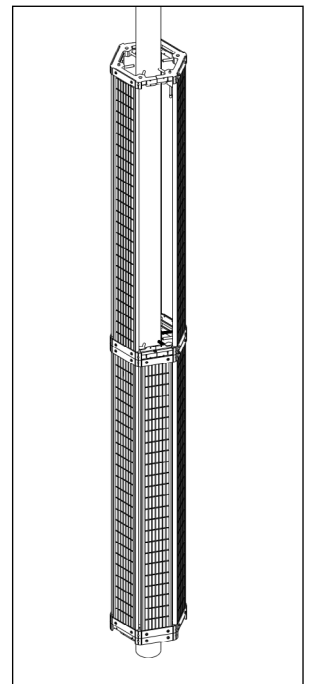
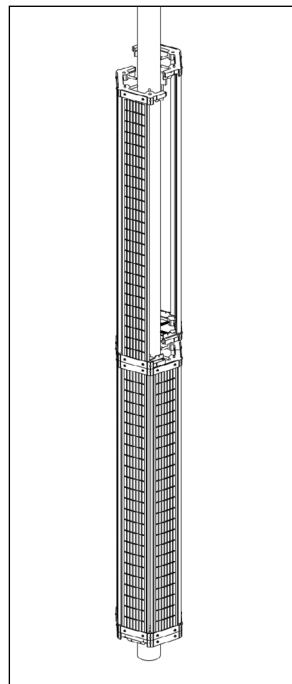
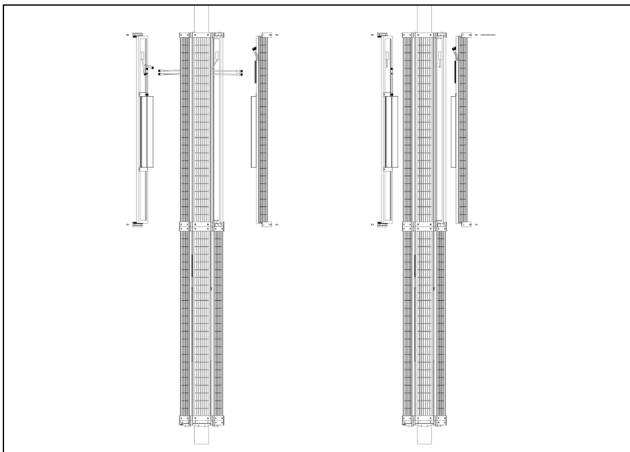


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SUPPLEMENT I ADDITIONAL INSTALLATION FOR STACKING COLARSUN UNITS

If you have chosen a solution that involves stacking two COLARSUN units, you will need to repeat the installation process to add the second unit on top of the first.

No additional support pieces are required for this configuration.



CONNECTIONS

Follow instructions similar to those in Step 9 for making connections, but note that with an additional COLARSUN unit, the connections for the "BOTTOM" unit will be: F to F, E to E, D to D, C to C, B to B, A to A, and G to G.

Connect the battery marked in red to red. For the "TOP" unit, the connections will be: F to F, E to E, D to D, C to C, B to B, A to A, G to G, and I to I.

